SECRETS

PAWN ENDINGS

FOREWORD BY JOHN NUNN



VERYMAN CHESS-On line/comFrank Lamprecht

Secrets of Pawn Endings

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Translated by Marc Becker Foreword by John Nunn



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Foreword

The extraordinary complexity of chess is familiar to every player. When most of the pieces are on the board, the number of legal moves is relatively large, and so the tree of analysis expands very quickly the deeper one looks into the position. Humans only look at a tiny part of this tree, but even so a complex piece of tactics can take a long time to calculate; moreover, the result may not be especially accurate. Computers may be more accurate and faster when it comes to tactical analysis. but they have problems when it comes to planning and long-term strategic decisions. Of course, this complexity is what makes chess a game rather than a calculation - if it were possible to evaluate each position definitely, chess would lose its appeal. However, it is fascinating to look at a subset of chess positions which are more amenable to definite analysis. This book is concerned with such a subset king and pawn endings. At first sight such endings should be quite simple. All the complexity caused by knights, bishops and rooks has disappeared, and queens only put in an appearance in a small percentage of cases. Yet, oddly, this results in a paradox. It is certainly true that the number of legal moves is much less than in a typical middlegame position, and so both computers and humans find it possible to look further into the position. However, this is a double-edged sword; many king and pawn endings are capable of concrete evaluation, so the shades of assessment used for middlegame positions tend to evaporate. No longer can one get away with a 'slight advantage for White', or an 'unclear'. Instead, the player or analyst has to continue his work until he can state 'Win', 'Loss' or 'Draw'. To reach such a conclusion may require exceptionally deep analysis, and prove more troublesome than evaluating a middlegame position.

Because king and pawn endings are susceptible to concrete analysis, it might seem that they are the ideal area for computer assistance. However, until recently this has not been the case, and it is only now that some tools are appearing which are of value for the analysis of king and pawn endings. Several years ago databases were created for many five-man endings (my own series of endgame books was based on these), but until very recently there was no database available for the ending $+2\triangle \times +2$. One reason for this is that in order to create such a database, it is first of all necessary to create databases for all the endgames which might result after promotion (or underpromotion) of one or more pawns. Clearly, this is a substantial task. However, the appearance of Hiarcs 7.32, with the accompanying Nalimov tablebases. has provided an easily accessible database for $\triangle +2\triangle$ v $\triangle +\triangle$. The appearance of this tool led to a flurry of checking by the authors at a late stage in the production of this book; in most cases the database upheld the authors' analysis, but a few errors were revealed which had to be corrected.

Another interesting tool for analysing king and pawn endings is a program written by Lars Rasmussen of Denmark. This program requires you to feed in a pawn structure, then it generates a database Foreword 7

based on that pawn structure and all derivative structures resulting from pawn moves and/or captures. This program has some limitations, the main one being that it is currently unable to evaluate any queen endings which might result. Thus it works best in positions which are unlikely to lead to a queen ending (e.g. endings with all the pawns on one side). Its great advantage is that whereas the Nalimov databases can only cope with three pawns, the Rasmussen program will work with up to seven. I was able to check many of the positions in this book with the Rasmussen program. Once again, I found the authors' analysis to be fundamentally sound, and most of the corrections were quite minor.

While computer assistance can be of help for many basic king and pawn endings, the analyst is more or less on his own when it comes to more complex situations. In the past, analysts and authors have tended to avoid tackling such messy positions and have preferred to concentrate on the basic positions, or on positions with blocked pawn structures, which are far easier to analyse. However, the authors of this book are players rather than theoreticians, and they have ambitiously tackled a large number of complex practical examples with many pawns. The resulting analysis has been an eye-opener for me, and shows how difficult many practical king and pawn endings are. This point is reinforced by the number of errors by leading grandmasters (including resigning in a drawn position) which the authors point out. Even Garry Kasparov is shown giving away half a point on p.223.

If the authors were ambitious in tackling such positions, their decision to write the book using the Nunn convention shows extraordinary bravery. I must admit that I would never have dared to do this myself. The authors explain this convention in more detail on p.12, but basically it requires the author to indicate precisely which moves throw away half a point, and which are 'only' moves. I introduced this convention in my own series of endgame books, in order to display a great deal of information in a compact form. However, in those books I had a database to hand, so in most cases I could obtain the necessary information directly from the database. By contrast, in the vast majority of cases Karsten Müller and Frank Lamprecht had to use their own brains for the same purpose.

Readers may wonder if king and pawn endings are really so important, but the answer is undoubtedly that they are. Looking through this book, you will see that a lot of the examples are from recent tournament play and involve leading players - the frequency of king and pawn endings is higher than one might imagine. Even in cases where a king and pawn ending does not actually arise, the possibility of one often has a profound influence on the play. In many other types of ending, a possibility to exchange the last pieces arises. The question is whether it is better to exchange or to avoid the exchange. The subject of liquidation is an important one in over-the-board play, and the authors quite rightly devote a whole chapter to it, giving examples of both correct and misguided liquidations.

This book scores a number of 'firsts' for king and pawn ending books. It is the first to use the latest computer tools for checking the analysis, where possible. There will undoubtedly still be errors, as much of the analysis could not be checked in this way, but the extra level of checking, applied to what was already very accurate analysis, should have further reduced the error rate. The strong emphasis on practical examples and

over-the-board play is another 'first', and makes this book an exceptionally valuable contribution to the literature of king and pawn endings. There is even a chapter on decision-making in king and pawn endings, which is of particular relevance today as many such endings will arise in quick-play finishes. Finally, there is a high percentage of original analysis. The

usual basic positions are here, of course, but these are presented less as an end in themselves and more as stepping-stones to the real content of the book.

I hope this book will give other readers as much pleasure and instruction as it has given me, and provide them with further insight into the subtle beauty of pawn endings.

John Nunn Chertsey, November 1999

Preface

Pawn endings don't occur quite as often as rook endings but nevertheless every ambitious chess-player should make himself familiar with them. The ability to assess them quickly and correctly plays an especially important role in the case of simplifications. But don't deceive yourself, though the board may be almost empty, pawn endings are full of traps and tricks, as you will certainly have already noticed yourself. When you deal with them in more detail you will even discover a special little chess world with a beauty all of its own. The magician of this world is without doubt Nikolai Dmitrievich Grigoriev, who enchants us with his masterpieces. It is no accident that we have included many of his ideas. Such points and surprising turns have been an encouragement for us throughout our work. Also the use of the Nunn Convention (which will be explained in more detail on the following pages) in dealing with the move evaluations has not only extended the analysis but also produced some surprises. Writing this book was a real matter of teamwork, since each position was analysed by both authors. In this connection we want to express our special thanks to Carl-Christian Buhr, Holger Hebbinghaus, Peter and Stefan Kühn, Werner Müller, Martin Voigt, Georg von Bülow, Christian Wilhelmi, and Claus Dieter Meyer, a trainer in Hamburg for many years, for their many suggestions, analyses and corrections.

Special thanks also go to the ChessBase company, who made it feasible for us to write the book with their program ChessBase for Windows, their databases, the analysis module Fritz 4, the new program Hiarcs 7.32 using the \$\ding*+2\Delta\$ vs \$\ding*+\Delta\$ tablebase and the Endgame CD-ROM by Ken Thompson and to Gambit Publications, especially to John Nunn and Graham Burgess for their good cooperation.

Though careful work has been done, some mistakes are unavoidable and we offer thanks in advance for any corrections.

Karsten Müller, Frank Lamprecht Hamburg, November 1999

Introduction

When one thinks about books on pawn endings, the book by Averbakh, the Encyclopaedia (ECE) and several standard works with separate chapters on pawn endings come to one's mind immediately. Why does it make sense to add another one? Both authors have many years of experience as chess trainers and grew tired of putting together motifs and themes afresh every time they were required. Therefore our work is primarily conceived as a textbook. The first twelve chapters are in a way the 'basics of pawn endings'. Each one of them builds a separate unit, consisting of explanations and exercises. Chapter 13 deals with general thinking methods in chess on the basis of pawn endings. In Chapter 14 you will find some difficult examples and ideas for your own analysis. That pawn endings don't come out of the blue is documented by Chapter 15. There various aspects of simplification will be discussed. The book is concluded by a final selection of exercises covering all the previous chapters. Those who like things expressed concisely are referred to the 'crash course' after this introduction. Otherwise, you should of course study the examples in each chapter first and then test your own understanding with the help of the exercises. If you are able to solve all the exercises correctly while lying in your bed in the evening you had better give the book away; if not, a chessboard will certainly help you. In this sense we believe we can offer the beginner the necessary knowledge as well as offering masters many new things.

■ Where applicable, we have created rules and principles to help orientate the reader. Since they are formulated in a highly general way, their interpretation demands a good deal of 'good will' to avoid them being distorted into something absurd.

Crash Course

This page is written for those readers who want to acquire the most important basics as quickly as possible. Of course this book would not be so voluminous if things were so easy. The beginner is unlikely to master the subject from this brief presentation; the expert on the other hand will hardly discover anything new. In any case the following list contains all terms that are important for pawn endings:

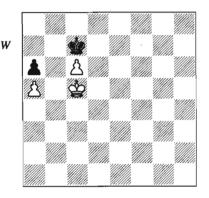
1.01-1.03	Square rule, Key squares, Zugzwang
1.05-1.07A-E	Opposition
1.08-1.14	Application of the opposition, a- and h-pawn, Doubled pawns
2.01	Pawn vs pawn on the same file
2.03-2.07, 2.10	Geometry of the board, Fight for critical squares
2.12-2.13	Pawns on adjacent files
3.03	Chasing two rabbits
3.06-3.09	Queen vs pawn
4.04	Corresponding squares
4.06	Protected passed pawn
4.08	Backward extra pawn
4.10	Flexible pawns with 2-1
4.14	Disunited pawns with 2-1
5.04	Bähr's Rule
5.08	Triangulation
6.01A-H	Fortresses
6.04	Stalemate as a means of defence
7.03, 7.05	Pawns on one wing
7.09-7.10	Active king with pawns on one wing
7.15, 7.17	Realization of an extra pawn, the candidate rule
8.06, 8.09, 8.12	Protected passed pawn vs other passed pawns
8.13	Outside passed pawn
9.01	Breakthrough
9.07	Breakthrough of the majority
9.09	Breakthrough of the minority
10.01	Realization of an extra pawn with pawns on both wings
10.03-10.05, 10.08	Basics with pawns on both wings
10.11	Problems with the creation of passed pawns
11.01-11.02, 11.10	Techniques with nearly symmetrical pawn distribution (king
	manoeuvres, spare tempi, etc.)
11.11, 11.14	King-march
12.01-12.04	Determination of corresponding squares
12.09	Manoeuvres

The Nunn Convention

We have defined the following move evaluations according to the system introduced by John Nunn:

- ! The only move that does not change the result of the position without regard to possible repetitions of the position. We interpret this in such a way that every move that leads to a position that has to be reached if the defender plays accordingly gets an exclamation mark. (Except that if there is just one legal move it doesn't get an exclamation mark).
- !! A particularly beautiful or hard-tofind exclamation-mark move
- ? A move that changes the result of the position in a negative way
- ?? An obvious or very unfortunate question-mark move
- !? A move that makes one's task easier or that causes problems for the opponent
- ?! A move with which you cause difficulties for yourself or that makes it too easy for the opponent

To illustrate the convention, we present the following triangulation from Chapter 5:



1 **\$**d5!

All other moves lose the c6-pawn; therefore this is obviously the only move that keeps a winning position.

1...\$c8!?

This forces White to play precisely.

1...\$\Delta d8?! makes White's task easier: 2

\$\Delta d6! +-.

2 **☆**d4

This move doesn't get an exclamation mark because the triangulation can also be initiated by 2 \$\display\$c4 (a disadvantage of the Nunn Convention).

2...\$d8 3 \$c4

Again no exclamation mark because one could play 3 \$\display\$ d5 \$\display\$ c8 4 \$\display\$ c4.

3...\$c8 4 \$d5!

Here an exclamation mark is necessary because White has to bring about this position in any case if he wants to win (it doesn't matter if the king comes from c4 or d4).

4...\$\psi 8 \$\psi 66! \$\psi 6 c7! \$\psi 5 7\$
\$\psi 67! \$\psi 8 \$\psi 6 +- (8 c8\$\psi ?? stalemate).

5 \$c5! \$c8 6 \$b6! \$b8 7 \$xa6!

After 7 c7+? it's only a draw: 7...\$c8! 8 \$xa6 \$xc7! =.

7... c c 7 8 c b 5! + -

It remains to comment that there is no endgame CD-ROM available for most of the positions in this book so that, unlike Dr Nunn, we have a further potential source of errors!

Other Signs and Symbols

- +- White is winning
- ± White is clearly better and should win
- ± White is a little bit better but his advantage shouldn't be enough for a win
- = The position is equal or drawn
- Black is a little bit better but his advantage shouldn't be enough for a win
- F Black is clearly better and should win
- -+ Black is winning

In the diagrams there are the following symbols:

- a critical square
- ★ a key square
- $\ \square$ marks, particularly in Chapter 12, the key squares so that the numbers can still be read.

Figures like 1, 1a mark the corresponding squares.

Under the diagrams you can find signs of the following type:

- +/= The sign before the slash shows the assessment from the white perspective with White to move, while the sign after the slash shows the assessment from the black perspective with Black to move.
- +/= thus means that White to move wins and Black to move draws.
- /- means that Black to move loses. With White to move the position is either senseless (the black king could be in check, for example) or not interesting for us.

In the exercises +, = or - will be replaced by one to five stars, depending on the level of difficulty:

- * easy
- ** medium
- *** difficult
- **** very difficult
- ***** extremely difficult

For example ***/ means that White is to move in this difficult exercise but you are not asked to consider the position with Black to move. */*** signifies that with White to play it is an easy exercise, while the Black-to-play case is difficult. In the exercises, it is up to the reader to determine whether the task of the side to move is to win or to draw.

Abbreviations and other symbols:

ECE Encyclopaedia of Chess Endings (pawn endings volume)

BCE Batsford Chess Endings

Av Pawn endings by Averbakh

Inf 63 Chess Informator 63 (etc.)

CBM ChessBase Magazine
NIC New in Chess Magazine

Ch championship

Cht team championship Wch world championship Echt European Team Ch

Z zonal event
IZ interzonal event
Ct candidates event
jr junior event

corr. correspondence game

OL olympiad

tt team tournament

1-0 the game ends in a win for White

1/2-1/2 the game ends in a draw

0-1 the game ends in a win for Black

+ check

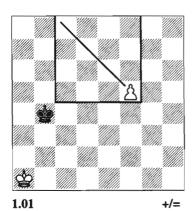
introduces a comment or an anecdote.

Some subsidiary positions are given without a diagram. The method of displaying these is easiest to explain by means of an example. On page 37 you will find the position ($w \ge c2, \triangle b2, e5$; $b \ge d5, \triangle a4$) – this means that White has a king on c2, and pawns on b2 and e5, while Black has a king on d5 and a pawn on a4. The white pieces are always given first, starting with the king; pieces of the same type are separated by a comma (as with the two white pawns in the above example). A semi-colon separates White's pieces from Black's.

1 King and Pawn(s) vs King

At first we will examine the endgame king and pawn vs king with the bishop's pawn, but all our results are also valid for the central and the knight's pawns. Some positions with rook's pawns will follow. Problems with the realization of two extra pawns will then in particular round off the exercises. Important themes are, among others, key squares and connected to them the opposition (also distant, side, diagonal and virtual opposition), simple and reciprocal zugzwang and the square rule, which is also the subject of our first example:

The Rule of the Square



The white king is too far away to support his pawn. Therefore everything depends on the right to move. If White is to move, he can directly queen his pawn:

1 f6! Φ c5 2 f7! Φ d6 3 f8 Ψ + +-

If it is Black to move, he is able to capture the pawn:

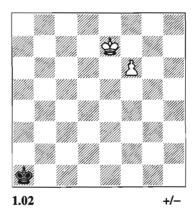
1...堂c5! 2 f6 堂d6! 3 f7 堂e7! 4 f8豐+ 堂xf8! =

The superimposed square that encloses the pawn's diagonal to the 8th rank serves as a visual aid.

Square rule: if the king is in the square of the pawn (passed pawn) or if he can step into it, then he can capture the pawn. If not, the pawn can be queened without being supported by its own king.

A1.01 (i.e. exercise 1.01) shows a logical exception. In case there are still several pawns left on the board, one has to look out for possibilities to block the king from its way into the square (see A1.03).

We have seen that the black king captures the pawn when it is able to get into the square of the pawn. But what happens if the white king supports his pawn? A simple reflection should us help on:

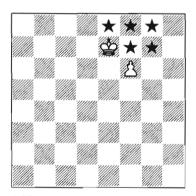


From e7 White protects the pawn's way to the 8th rank. Therefore it doesn't

matter where the black king is placed. We describe the e7-square as a key square of the f6-pawn.

Definition: a square is described as a key square when its occupation by the king secures the win (in this case the queening of the f-pawn), no matter who is to move.

One notices at once that g7 is also a key square. From f7 the white king can move to either e7 or g7. Therefore f7 is also a key square. The same applies for the squares e8, f8 and g8. Of course Black then mustn't be able to capture the pawn. So we have determined the six key squares of the f6-pawn:



1.02

But what if the black king blocks the direct way to the key squares?

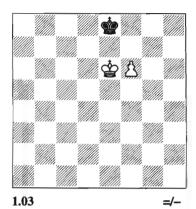
In the following diagram, everything depends on the right to move.

If White is to move, he can't make any progress:

1 f7+

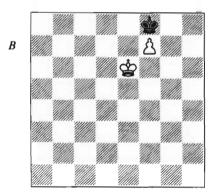
Nor does it help if White retreats with his king: 1 \$\pmese5!? \$\pmesef7 2 \$\pmesef5 \pmesef8! 3 \$\pmeseg6\$ \$\pmeseg8! 4 \$\pmesef5 \pmesef7 5 \$\pmesef5 \pmesef8! 6 \$\pmese6\$ \$\pmesef8! and White hasn't achieved anything.

1...\$f8! 2 \$f6 stalemate



If it is Black to move, he loses because the white king gets to the key square e7.

1...**\$f8** 1...**\$**d8 2 f7 +−. **2 f7!** (D)



Black is now forced to play ... \$\preceq g7\$ (the pawn advances to the 7th rank without a check). White to move would have to stalemate, as we have seen before, or give up the pawn.

2...\$g7 3 \$e7! +-

In position 1.03 it was disadvantageous for both sides to have to move.

Definition: We talk about zugzwang, when the mere fact that one side is to

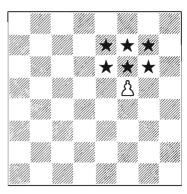
move (has to move) leads to a disadvantage. In other words, to pass on the right to move would be by far the best move.

It follows that 1.03 shows a reciprocal zugzwang, in contrast to the example we have discussed in the introduction (0.01; later 5.08), where Black, no matter who is to move, gets into (simple) zugzwang. Zugzwang situations play an important role in nearly all types of endgames, but in pawn endings they appear particularly often.

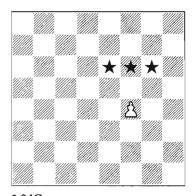
With the useful question: "What would my opponent do, if he were to move?" zugzwang situations are often easier to identify. Of course it also helps to detect threats.

Back to the key squares:

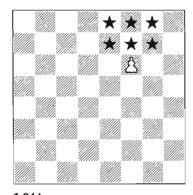
The following five diagrams show the key squares of the f-pawn in various stages of advancement:



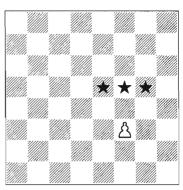
1.04B



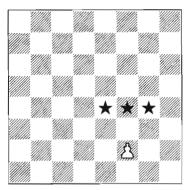
1.04C



1.04A

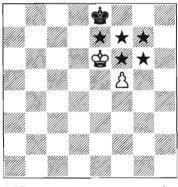


1.04D



1.04E

A rule of thumb: if the pawn has crossed the middle of the board he has got six key squares; if he is still on his side of the board he only has three. The following two positions will establish that:

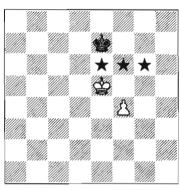


1.05 +/-

The white king has occupied a key square. The right to move thus doesn't matter. If White is to move, he uses the zugzwang known from position 1.03: 1 f6 \(\precent{c}\)f8 2 f7! +-.

If Black is to move, he must allow the white king to the 7th rank: 1...\$\psi f8 2 \$\psi f6!\$ (but not 2 f6? \$\psi e8! 3 f7+ \$\psi f8! 4 \$\psi f6\$ stalemate) 2...\$\psi e8 3 \$\psi g7! +-.

If the king doesn't occupy a key square it is always a draw when the pawn advances to the 7th rank with check.



1.06 =/-

Here White cannot make use of the zugzwang position 1.03. Therefore White to move can only achieve a draw if the black king defends the key squares on the sixth rank: 1 \$\psi f5 \psi f7! 2 \psi g5 \psi g7! 3 f5 \$\psi f7! 4 f6 \psi f8! 5 \psi g6 \psi g8! =.

If Black is to move, he loses control over the key squares and thus the game: 1... 全f7 2 全f5! 全e7 3 全g6! 全f8 4 全f6 全g8 5 全e7 全g7 6 f5 +-.

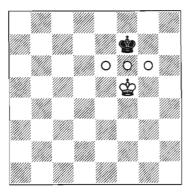
The two kings face each other at e5/e7 in 1.06 and that is called *opposition*.

The opposition is the most important means in the fight for three adjacent key squares. Whoever loses the opposition also loses the fight for the key squares.

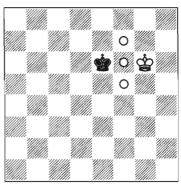
Let's have a quick look at the most frequent forms of opposition:

The first diagram on the next page shows the *near opposition*. When one talks about opposition, most often this vertical form of opposition is meant.

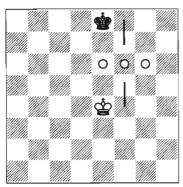
In the lower diagram, because it's Black to move, White has the distant



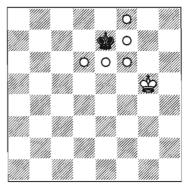
1.07A The (near) opposition



1.07C The side opposition



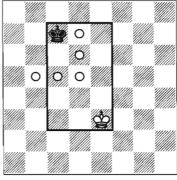
1.07B The distant opposition



1.07D The diagonal opposition

opposition on the e-file. If the aim is to reach one of the critical squares e6, f6, g6 (thus the main file is the f-file), the first step is to have the distant opposition on the main file. In a second step it will then be transformed into the simple opposition. After 1...\$18 2 \$14! \$28 3 \$5!\$ \$174\$f5! White gets at first the normal opposition and after 4...\$27 5 \$26! one of the critical squares.

The following forms of opposition will only later be of importance (you will, for example, find them in exercise A4.04):



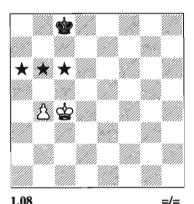
1.07E The virtual opposition

In diagram 1.07D, Black to move has to allow either the near or the side opposition:

1...\$\perp 17
Or 1...\$\perp 6 2 \perp 6! \$\perp 7 3 \perp 67!.
2 \perp 15! \$\perp 6 7 3 \perp 65!

We speak of opposition in general when the square around the kings has corners of the same colour. (Note: all four corners must have the same colour!).

The following two examples show the battle for the key squares, when the kings are still far away. In the first one it is possible to defend them:



1.08 =/
S.Gligorić - R.J.Fischer
Yugoslavia Ct 1959

Black can easily cover the key squares if he can prevent his opponent from getting the (near) opposition. Due to the b4-pawn he can't get the distant opposition on the main file (1.07B).

1...**\$**b8!

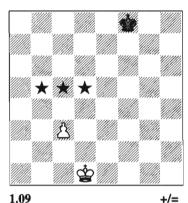
1...\$c7? 2 \$c5! +-; 1...\$b7? 2 \$b5! --.

2 c5

2 \$\document\$d5 would be the right move if the key squares were b6, c6 and d6, but here it doesn't do any good due to 2...\$\document\$b7! =.

2...\$c7! 3 \$b5 \$b7! 4 \$a5 \$a7! and Black draws.

The second example is of fundamental importance and should be studied carefully, because it shows how the attacker should proceed with a pawn that is not far advanced:



Drtina Casopis cesky sahistu, 1908

White is able to occupy the fourth rank in three moves. However, only by advancing to b4 can he avoid Black getting the opposition (it takes four moves to reach b6!).

1 \$\psic c2! \$\psi e7 2 \$\psi b3! \$\psi d6 3 \$\psi b4! \$\psi c6\$ 4 \$\psi c4! \$\psi d6 5 \$\psi b5!

White has occupied a key square and in the following moves he captures still more space before he finally advances his pawn.

5...\$c7 6 \$c5!

6 c4?? (don't forget: if the pawn moves, the key squares change!) 6...\$\psi_b7! 7 \psi_c5\$\psi_c7! 8 \psi_d5 \psi_d7! 9 c5 \psi_c7! 10 c6 \psi_c8! 11 \psi_d6 \psi_d8! 12 c7+ \psi_c8! 13 \psi_c6 leads only to stalemate.

6...\$d7 7 \$b6!

White has captured a key square of the c4-pawn (which is also a key square if the

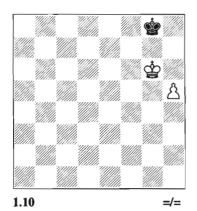
pawn advances to c5) and can finally advance his pawn:

7...\$d68 c4!\$d79 c5!\$c810\$c6! \$d811\$b7!\$d712 c6+!+-

Before we get to the rook's pawn, yet another rule of thumb: The position is drawn if the defender's king is able to occupy one of the two squares in front of the pawn (the only exception is 1.03 with Black to move), as then he can always successfully defend the key squares. From the attacker's point of view, the following rule might also help: one wins when at least two of the following three criteria are fulfilled:

- 1) King in front of the pawn;
- 2) Opposition;
- 3) King on the 6th (or 3rd) rank.

With the rook's pawn the winning prospects go down considerably:

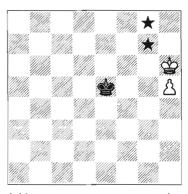


If the defending king gets in front of the pawn all winning efforts are in vain.

1...\$h8 2 h6 \$g8 3 h7+ \$h8! =

In the following diagram, Black is also able to draw if he succeeds in blocking the white king on the edge:

1...\$f6! 2 \$h7



1.11 +/=

The position after 2 hinspace h7 would also be drawn with White to move: 1 h6 hinspace h7! =, 1 hinspace h6 hinspace h7! =, 1 hinspace h2 hinspace h28 hinspace h29.! =.

2...\$\psi 7! 3 \psi h8 \psi f8 4 \psi h7 \psi f7! 5 h6 \psi f8! 6 \psi g6

By moving the pawn, White could get away from the edge but now the black king reaches the saving queening square.

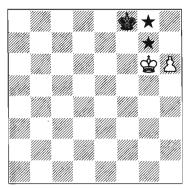
6...\$g8! 7 h7+ \$h8! =

White to move would have occupied one of the two key squares of the rook's pawn with 1 \Delta g7 and queened it.

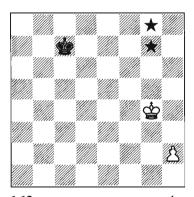
From our considerations we can draw the following important rule: Black can always draw vs the white h-pawn if he manages to reach the f8-square (or c8 with the a-pawn or f1 or c1 with a black rook's pawn) with his king. He then gets into the corner or he can block the white king. This rule makes a quick evaluation a lot easier. However, it does have a (trivial) exception (see diagram at the top of the following page):

If White is to move, he wins with 1 h7! +-.

Diagram 1.13 on the following page illustrates the battle for the key squares of the rook's pawn:







1.13 +/= O.Panno – M.Najdorf Buenos Aires 1968

White, to move, wins by occupying the key square g7:

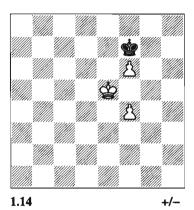
1 **⊈g**5 1-0

In view of 1...\$\psid7 2 \psig6 \psic7 (2...\$\psic6 3 h4 {after 3 \psig7?? \$\psif5! = Black captures the pawn} 3...\$\psic7 4 \psig7! +-) 3

\$\preceq\$g7! \$\preceq\$e6 4 h4! \$\preceq\$f5 5 h5! and White wins.

If Black were to move, he would draw easily by getting his king to the saving square f8: 1...\$\psi\$d7 2 \$\psi\$5 \$\psi\$e7 3 \$\psi\$g6 \$\psi\$f8! 4 h4 (4 \$\psi\$h7 \$\psi\$f7! =) 4...\$\psi\$g8! =

Normally two or more pawns win easily, though sometimes one has to be sacrificed in order to occupy the key squares of the remaining pawn. You will find some examples in this chapter's exercises. Even doubled pawns usually win:



1 \psi f5!

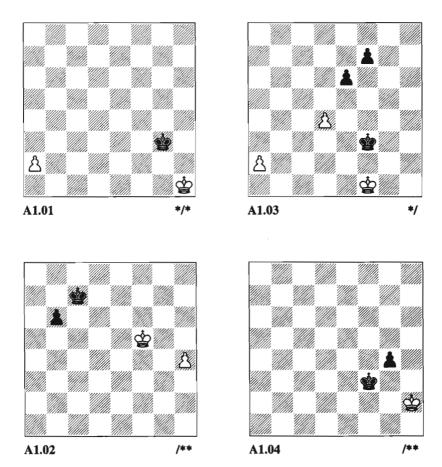
1 f5? would be a serious mistake since White still needs the back pawn for a tempo (remember: a pawn move can't be reversed). After this Black manages to draw similarly to 1.03: 1...♥f8! 2 �e6 �e8! 3 f7+ �f8! 4 f6 stalemate.

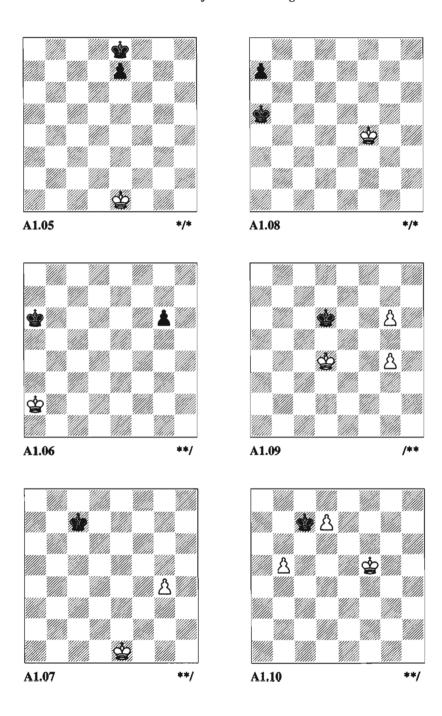
1...\$\psi 8 2 \psi 6 \psi 8 3 f7+ \psi f8 4 f5
4 \psi 6 \psi 6 7 5 f8\psi + \psi xf8 6 \psi f6 +-.
4...\$\psi 7 5 \psi 6 7 +-

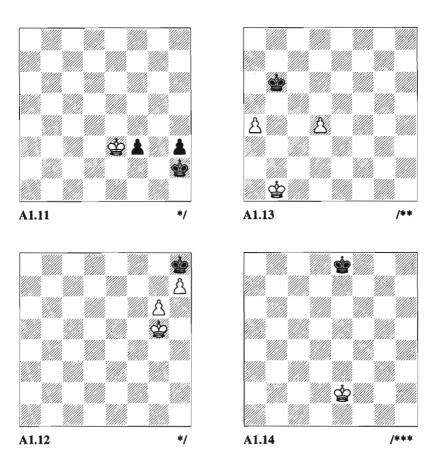
Chapter 1 Exercises

Before you dive into the jungle of exercises, some remarks are appropriate. The positions are not ordered by their level of difficulty (number of stars) but after the themes that occur in the chapter. There doesn't always exist one clear solution; it's rather sometimes a particular idea or the right plan that should be discovered. In odd cases the exercise might even be 'unsolvable'. Then it would be sufficient to assess the position correctly.

Pawn endings are very suitable to train the calculation of variations. Even though it demands a great deal of concentration, you should therefore not stop your calculations before you have determined your verdict.







Find all combinations of three adjacent squares (horizontal or vertical) that can be defended by the black king. Which ones can be defended by the white king?

Solutions to Chapter 1 Exercises

A 1.01

It seems that the black king is in the square of the pawn. However, if the pawn is still in its starting position, then you have to watch out for the possibility of a double step when applying the square rule: 1 a4! \$\Phi(4 2 a5!)\$\Phi(5 3 a6!)\$\Phi(6 4 a7!)\$\Phi(7 5 a8\Phi) +-.

If Black is to move, he captures the pawn: 1...\$f4 (1...\$f2?? 2 a4! +-) 2 a4 \$e5 3 a5 \$d6 4 a6 \$c7 5 a7 \$b7! = (1.01).

A1.02 I.Rogers – E.Levi, Canberra 1996

Actually we deal with these kind of positions in Chapter 3 (race of the pawns) but here the main question is whether Black has to stop the h-pawn (by moving via f8 into the square) or whether he can engage in a race with 1...b5. We assume that you have noticed that White wins after 1...b5? because he is in the square of the pawn after 2 h5!, while Black isn't in the square of the h5-pawn.

1....**⇔**d7

The game actually concluded 1...b5? 2 $h5! b4 3 \triangleq e4! 1-0$.

Not 1...\$\psi d8? 2 \$\psi f6!\$\$\psi e8 3 \$\psi g7! +--, when White queens his pawn with check.

2 \(f6!? \) b5!

2...**\$**e8? 3 **\$**g7! +−.

3 h5 b4! =

A1.03 R.Bianchetti, 1925

1 d5!

After this blocking sacrifice the apawn can't be stopped. On the other hand 1 a4? is premature because the black king would then get into the square of the apawn without any problem: 1...\$\div e4! 2 a5! \$\div d5! =.

1...exd5 2 a4! d4

2...\$\psie4 3 a5! +-.
3 a5! d3 4 \$\psie4 e1! +-

A1.04 G.Maroczy – F.Marshall, Monte Carlo 1903

With the knight's pawn, stalemate possibilities have to be considered:

1...\$f2!

1...g3+? 2 h1! =.

2 \$\dot{\phi}\text{11} \dot{\phi}\text{g3!}

2...g3?? stalemate.

3 &g1 &h3! 0-1

Due to 4 \$\precent{\Phi}\$h1 g3! 5 \$\precent{\Phi}\$g1 g2! 6 \$\precent{\Phi}\$f2 \$\precent{\Phi}\$h2! -+.

A1.05 Lolli, Osservazioni teorico, 1763

If White is to move, he manages to defend the key squares (d5, e5, f5): 1 \$\dispec 2d7 2 \$\dispec 2d6 (2...\$\dispec 6 3 \$\dispec 2d! =) 3 \$\dispec dd! =.

Black to move occupies one of the key squares and wins: 1...\$d7 2 \$\pmeq e2 \$\pmeq d6 3\$ \$\pmeq d3 (3 \$\pmeq d2 \$\pmeq e5 4 \$\pmeq e3 e6 5 \$\pmeq d3 \$\pmeq f4! -+) 3...\$\pmeq d5 4 \$\pmeq e3 \$\pmeq e5! 5 \$\pmeq d3 \$\pmeq f4! 6\$ \$\pmeq e2 \$\pmeq e4 7 \$\pmeq d2 \$\pmeq f3 -+ (1.06, 1.09).

A1.06 A.Mandler, Tidskrift för Schack, 1969

The fight for the key squares (f4, g4, h4) here starts at the edge of the board:

1 **⇔**b2!

1 \$\psi_3? \$\psi_5! 2 \$\psi_63 \$\psi_5! 3 \$\psi_43\$\$
\$\psi_5! 4 \$\psi_63 \$\psi_6! 5 \$\psi_f3 \$\psi_f5! 6 \$\psi_g3\$\$
\$\psi_5! 7 \$\psi_h3 \$\psi_f4! -+.

1...**\$**b6

1...**\$**b5 2 **\$**b3! =.

2 \$\preceq\$c2! \$\preceq\$c6 3 \$\preceq\$d2! \$\preceq\$d6 4 \$\preceq\$e2! \$\preceq\$6 6 \$\preceq\$g2! =

The distant opposition didn't earn Black anything (1.08).

A1.07 Schiffers, Samoucitel sahmatnoj igri

White wins as in diagram 1.09:

1 \$12! \$d6 2 \$g3! \$e6 3 \$h4! \$17 4 \$h5!

A1.08 Berger - Mason, Breslau 1889

The game actually concluded 1 \$\text{\$\psi}\$e4? \$\text{\$\psi\$}b4 2 \$\text{\$\psi\$}d3 \$\text{\$\psi\$}b3! 3 \$\text{\$\psi\$}d2 \$\text{\$\psi\$}b2! 0-1.

Instead, White has to aim straight for the c1-square: 1 \$e3! \$b4 2 \$d2! \$b3 \$\$ \$c1! = (1.10).

If Black is to move, he occupies the key square b2: 1...\$\Delta b4 2 \Delta e3 \Delta c3 (2...\$\Delta 5 -+) 3 \Delta e2 (3 \Delta e4 a5 -+) 3...a5 4 \Delta d1 \Delta b2! -+ (1.13).

A1.09 J.R.Capablanca, Chess Fundamentals, 1921

A knowledge of 1.03 and a well-placed pawn sacrifice lead to victory:

1...**⊈**e6

1...\$\psi_67 2 \$\psi_65!\$ (2 g5? \$\psi_f8! 3 \$\psi_65\$ \$\psi_g7 4 \$\psi_f5 \$\psi_g8!\$ =; see 1.14) 2...\$\psi_68\$ (2...\$\psi_f8 3 \$\psi_f6 \$\psi_g8 4 g7 \$\psi_h7 5 \$\psi_f7\$ \$\psi_h6 6 g8\$\psi \psi_h7 7 \$\psi_g5 \$\psi_h6 8 \$\psi_h5#\$) 3 g7 \$\psi_f7 4 g8\$\psi_+\$\psi_xg8 5 \$\psi_f6!\$ +-.

2 g5! \$e7 3 \$e5! \$e8 4 \$e6

4 g7 \$f7 5 g8\$+ \$xg8 6 \$f6! +- (A1.04).

4...\$\delta f8 5 \delta f6! \delta g8 6 g7! \delta h7 7 g8\delta +- (A1.04)

A1.10 E.Pogosiants, 1961

We hope the stalemate idea didn't mislead you into judging the position to be drawn.

1 \$\psie6! \$\psi d8 2 \$\psi d5!

2 b6?? stalemate.

2...\$xd7 3 b6! \$d8 4 \$d6

4 \$c6?? \$c8! =.

4...\$c8 5 \$c6! +-

Here the knowledge of 1.03 was useful again. If the position were moved one file to the left, White couldn't win because of the rook's pawn (ECE 29).

A1.11 Antsigin - N.Zhuravliov, USSR 1952

Here White resigned (!!), instead of bringing about a position of reciprocal zugzwang with 1 \$\Delta f2!\$ (not 1 \$\Delta xf3? \$\Delta g1! -+)\$ and so drawing after 1...\$\Delta h1 2 \$\Delta f1!\$ (2 \$\Delta g3? \$\Delta g1! -+) 2...f2 3 \$\Delta xf2!\$ \$\Delta h2 4 \$\Delta f1!\$ \$\Delta g3 5 \$\Delta g1!\$ (1.10).

A1.12 After Ponziani, 1769

Due to the stalemate, the h-pawn has to be sacrificed:

1 \place{1}{2}f5

1 **★**f6?? stalemate.

1...\$\psig7 2 h8\psi + \psixh8 3 \psif6! \psig8 4 \quad g7! +- (1.03)

A1.13

1...**\$**a5

1...\$c6?! 2 \$c2 +-.

The a-pawn can't be defended, but White captures the d-pawn's key squares.

2 \properties c2!

Not 2 d5? \$\ddot b6! 3 d6 (3 \$\ddot c2 \ddot c5! =) 3...\$\ddot c6! 4 a5 \$\ddot xd6! 5 a6 \$\ddot c6 =.

2...\$\prepxa4 3 \preprint d3! \preprint b5 4 \preprint e4! \preprint c6 5 \preprint e5! \preprint d7 6 \preprint d5! +- (1.06)

A1.14

All vertical combinations of three squares between the 6th and 8th ranks can be defended. We haven't come across an example for that yet but, as we will see later, this might also be of importance. With all horizontal combinations Black is lost though, e.g. with a7, b7, c7:

1...\$\psi d8 2 \$\psi d2! \$\psi c8 3 \$\psi c2! \$\psi b8 4 \$\psi b2!

Gaining the distant opposition on the main file!

4...\$\psice 8 5 \psia3! \psic 7 6 \psia4! \psib8 7 \$\psib4! \psia8 8 \psic5! \psib7 9 \psib5! \psic 7 10 \$\psia6! \psib8 11 \psib6! \psic8 12 \psia7!

White has achieved his aim.

With White defending, on the other hand, White is able to defend all squares (!!) up to the 5th rank because he has the distant opposition.

2 King and Pawn vs King and Pawn

Now that Chapter 1 has described the situation when one side has no pawns at all, we now look at positions with one pawn on each side. To get used to the basic techniques we first look at positions without passed pawns, which means that the pawns are on the same file or on adjacent files (Chapter 3 is dedicated to the race of the passed pawns). Thereby the term key square will be expanded to critical square and we will have a closer look at the special geometry of the board, in which connection we advise the reader to concentrate particularly on the study by Grigoriev (2.05).

A) Pawns on the Same File

Since there are no passed pawns, the winning plan consists of two steps:

- 1) The opponent's pawn must be captured;
- 2) A key square of one's own pawn must be occupied.

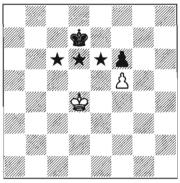
The position at the top of the following column is in a way critical:

Whoever is to move captures the opponent's pawn, but only for White is this enough to win because by taking the pawn he simultaneously occupies a key square of the f5-pawn:

1 &d5!

Opposition!

1...\$e7 2 \$\psice 6!\$ \$\psie 8 3 \$\psi 66!\$ \$\psi f7 4\$\$ \$\psi d7!\$ \$\psi f8 5 \$\psi e6!\$ \$\psi g7 6 \$\psi e7!\$ \$\psi g8 7\$\$ \$\psi xf6! +- (1.05)\$



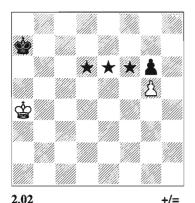
2.01 +/=

This line shows that Black can't defend his pawn any longer after he has to allow White access to c6. This means that the squares c6, d6 and e6 are critical squares of the f6-pawn (their occupation by the white king leads to the loss of the pawn). With blocked pawns the critical squares are always those three directly beside the pawn. For White the critical squares of the f6-pawn are simultaneously key squares since winning the pawn automatically means winning the game.

If it is Black to move, things are different. It is true that the black king can, with the help of the opposition, advance to the critical squares of the f5-pawn (c5, d5, e5) but this is not enough for a win because the white king is able to defend the key squares of the f6-pawn: 1...\$\pi\$d6 2\$\phi\$e4 \$\pi\$c5 3\$\phi\$e3 \$\phi\$d5 4\$\phi\$f4 \$\phi\$d4 5\$\phi\$f3\$\$\phi\$e5 6\$\phi\$g4 \$\phi\$e4 7\$\phi\$g3!. If Black takes

the pawn, the white king has to move to f3 to get the opposition! 7...\$xf5 8 \$f3! = (1.06).

The fight for the critical squares (key squares) might begin at their most far away access:



Here it starts on the a-file:

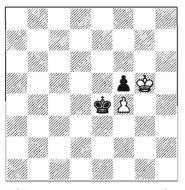
1 **\$**a5!

 $1 circle{a}b5? circle{a}b7! = .$

1...\$b7 2 \$b5! \$c7 3 \$c5! \$d7 4 \$d5! \$e7 5 \$e5!

5 \(\phi \)c6?? \(\phi \)e6! \(-+\).

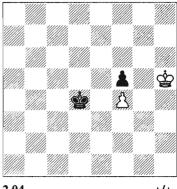
5...\$f7 6 \$d6! +- (2.01)



2.03

If both sides occupy the critical squares directly near the pawn simultaneously, a situation of reciprocal zugzwang exists and the reader should certainly memorize it due to its great practical importance. In the above diagram, whoever is to move loses. With White to play: 1 \$\Delta h 4 \Delta xf4!\$
2 \$\Delta h 3 \Delta f 3 -+. With Black to play: 1...\$\Delta b 5 2 \Delta xf5! \$\Delta d 6 3 \Delta f 6 +-.

With the kings one square aside it's just the opposite:

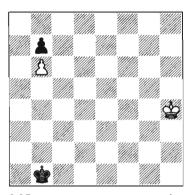


2.04 +/+

Whoever is to move wins! White to play: 1 \$\pmedge g6! (1 \$\pmedge g5?? \$\pmede e4! -+) 1...\$\pmede e4 2 \$\pmedge g5! +- (2.03). Black to play: 1...\$\pmede e3! 2 \$\pmede g5 \$\pmede e4! -+.

We are now ready for the following position (see diagram on following page):

Pure counting shows that White loses if he tries to capture the black pawn. White gets to c7 in five moves (aiming for c8 fails since the b6-pawn wouldn't be protected), but at this very moment Black would move to a6, whereafter White loses due by 2.03. It follows that White loses the b6-pawn in any case. So he must try to defend the key squares of the black b-pawn (a5, b5, c5). Actually after ... \(\Phi\)xb6 he has to play \(\Phi\)b4. Since



2.05 =/+ End of a study by N.Grigoriev Shakhmatny listok, 1931

every tempo counts (Black needs five moves to capture the pawn; White needs six moves to get to b4, but he is to move), White must be careful that the black king doesn't hinder him on his way. This is called 'shouldering away' the king.

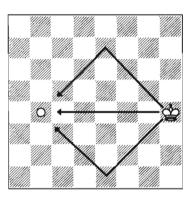
1 **\$**g3!!

White takes a curve to get to b4! Not 1 \$\preceq\$e2!:

- a) 2 \(\Delta f \)3 \(\Delta d \)3!. Shouldering away! White needs one more move to get to b4 and loses, e.g. 3 \(\Delta f \)2 \(\Delta c 4 \)4 \(\Delta c 3 \)5 5 \(\Delta d \)3 \(\Delta x b 6 ! 6 \)4 \(\Delta c 4 \)4 \(\Delta 5 ! \)—+.
- b) 2 \$\psi f4 \$\psi d3! 3 \$\psi e5 \$\psi c4! 4 \$\psi d6\$ \$\psi b5! 5 \$\psi c7 \$\psi a6! -+ (2.03).
- 1...\$\psic 2 \pm \text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exittit{\$\text{\$\exittit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittit{\$\text{\$\text{\$\}\exittit{\$\text{\$\text{\$\text{\$\text{\$\e
- The study goes: w\$h4,\(\bar{\pi}\)c8,\(\Delta\)b5; b\$\(\pi\)a1,\(\Delta\)b3,\(\bar{\pi}\)7,c5. White to move draws by 1 b6!! b2! 2 \(\bar{\pi}\)a8+! \$\(\pi\b1 3 \(\bar{\pi}\)c8! \$\(\pa\)a2 4 \(\bar{\pi}\)xc5!.

Geometry of the Chess Board

It's worth going into this theme in more detail. The idea of shouldering away (the kings try to keep each other from achieving their aims) appears very frequently in endgames. One should therefore be aware of an important feature of the chess-board, its special geometry:



2.06

From our schooldays we know that the shortest connection between two points is a straight line. For the king on the chessboard this rule is only valid for the diagonals. Obviously White has only one possibility to get to e1 in three moves. But should the king, as in 2.05, wish to get to b4 in six moves, White has 141 different routes to choose from, if one doesn't pay attention to the black king. Those are rarely all of the same value. Often it's the outside curve, sometimes only a zigzag course, that leads to success. You should therefore always carefully consider which route is best.

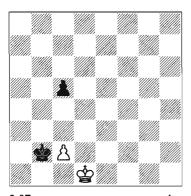
After the short trip to the geometry of the chessboard we now want to examine positions with pawns that are not yet blocked (see diagram on following page):

The pawn can't be defended in the long run. Thus the battle for the key squares has to be won:

1 c4!

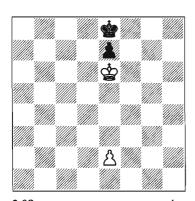
Not 1 \(\preceded{\preceded}\)d2? c4! 2 \(\preceded{\preceded}\)d1 c3! and Black wins.

1...\$c3 2 \$c1! \$d4 3 \$d2



2.07 =/= L'Hermet - Johnsteyn corr. 1877

3 &c2?? &xc4! -+ (1.06).3... &xc4 4 &c2! = (1.06)



2.08 =/= **J.Kling and B.Horwitz**, 1851

White's king is very active, but he still isn't able to win.

1 e3

1 e4 d8 2 f7 e5! = (2...d7? 3 e5! d8 4 e6! +-).

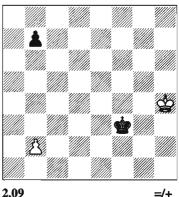
1...\$\psi d8 2 e4 \$\psi e8! 3 e5 \$\psi d8 4 \$\psi f7\$ \$\psi d7! 5 \$\psi f8\$

5 e6+?? **\$**d6! −+.

5...\$\psi_e6! 6 \$\psi_e8! =

2.08 would also be a draw with Black to move. After 1... 2d8 we would more or less have the same play.

After considering the above, the following difficult study might be mastered:



2.09 =/+ N.Grigoriev, 1938

Even though White's king isn't well placed, he still manages to draw. However, he has to watch out for both methods of defence (attack against the black pawn and defending his own pawn, or the key squares) to be successful:

1 \$\psi_g5! \$\psi_e4 2 \$\psi_f6! \$\psi_d5 3 \$\psi_e7! \$\psi_c6\$
3...b5 4 \$\psi_d7! b4 5 \$\psi_c7! \$\psi_c5 6 \$\psi_b7!\$
b3 (6...\$\psi_b5 7 b3! =) 7 \$\psi_a6! =.

4 De61

Only that way! The attempt to play on for a counter-attack fails: 4 \$\pm\$d8? b5! 5 \$\pm\$c8 (5 \$\pm\$e7 b4 6 \$\pm\$e6 \$\pm\$c5! 7 \$\pm\$e5 \$\pm\$c4! 8 \$\pm\$d6 b3! -+) 5...b4! 6 \$\pm\$b8 b3 -+.

4...b6 5 호e5! 호c5 6 호e4! 호c4 7 호e3! b5

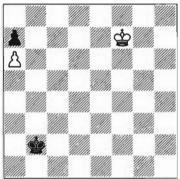
7...\$b3 8 \$d3 b5 9 \$d4! b4 10 \$c5!

8 \$\pm\$d2! \$\pm\$b3 9 \$\pm\$c1! \$\pm\$a2 10 b4! \$\pm\$b3 11 \$\pm\$b1! = (2.07)

■ A couple of other placements of the kings have also been examined; for example, White loses with w�h5 vs b�f4

(Grigoriev 1938, ECE 61, Av 62) no matter who is to move and White wins with w\$\displant^2 1 \text{ vs b\$\tilde\$h1 by 1 \$\tilde\$b1! (Moravec 1940, ECE 62, Av 63). Proceeding from Moravec, Verburg in 1987 placed the b\$\tilde\$ at f1 and moved the pawn from b7 to b5 (1 \$\tilde\$b1! \$\tilde\$e2 2 \$\tilde\$c2! \$\tilde\$e3 3 \$\tilde\$c3! +-).

We now get to the rook's pawn:



2.10 +/= Schlage – Ahues Berlin 1921

Black's defensive idea, to block the white king at the edge of the board, is already known from Chapter 1. However, White manages to avoid the blocking of his king by using the geometry of the chessboard and shouldering away the black king:

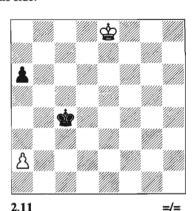
1 \$\pmeq e6! \$\pmeq c3 2 \$\pmeq d5!

(Maizelis). The game actually continued 2 \$\precede{\phi}6? \$\precede{\phi}4! 3 \$\precede{\phi}c6 \$\precede{\phi}e5! 4 \$\precede{\phi}b7\$ \$\precede{\phi}a6! 5 \$\precede{\phi}xa7 \$\precede{\phi}c7! = and was drawn.

- 2...**⇔**d3
- 2...\$\displayb4 3 \displayc6! \displaya5 4 \displayb7! +-.
- 3 \$\psic6! \$\psie4 4 \$\psib7! \$\psid5 5 \$\psixa7! \$\psic6 6 \$\psib8! +--

When there are still pawn moves available, the winning chances are less

because the defender has more time on his side:



Faas – Novikov USSR 1976

White can easily draw, even though his king is far away:

1...a5

1...\$b4 2 \$d7 (2 \$e7 =; 2 \$d8 =) 2...a5 3 \$c6 a4 4 \$d5! \$a3 5 \$c4 \$xa2 6 \$c3! = (1.11).

2 **2** e7

Alternatively $2 \otimes d7 =$; even $2 \otimes f7 =$ is playable.

2...a4 3 \$\dot{\phi}\text{e6} \dot{\phi}\text{c3}

3...a3 4 \$\perpensex 65 \$\perpensex

4 \$e5 \$h2

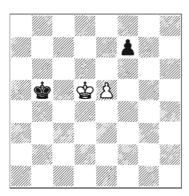
4...a3 5 **\$**e4! =.

 $5 & d4! & xa2 6 & c3! = \frac{1}{2} - \frac{1}{2} (1.11)$

B) Pawns on Adjacent Files

In this case the drawing chances for the defender are higher. The draw is already assured if his own pawn is protected or the opponent's pawn is attacked (see diagram on following page):

1... cbh4!

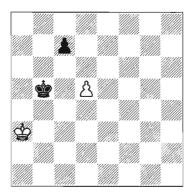


2.12 =/= O.Panno - R.Silva Nazzari Pinamar tt 1975

Black's own pawn can't be defended any longer. Therefore he has to go for a counter-attack. 1...\$b6? 2 \$d6! (shouldering away) 2...\$b5 3 \$e7! leads to a win for White.

- 2 \$\d6
- 2 \$\dd \$\dd 3 =.
- 2...\$\psic4 3 \$\psic4 6 \$\psi d5 4 \$\psi f6 \$\psi e4 5\$ \$\psix f7 \$\psi xe5! =

The second important defence is the sacrifice of the pawn followed by a defence of the key squares:

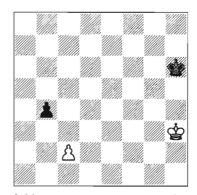


2.13 =/+ End of a study by **P.Duclos**, 1903

1 d6!

- 1 \$\disphi b3? \$\disphi c5! and now:
- a) 2 d6 \(\prix xd6! \) (2...cxd6? 3 \(\prix c3! =) 3 \(\prix c4 \(\prix c6! \) -+.
 - b) 2\$c3\$xd5!3\$d3 c6-+(1.06). 1...cxd62\$b3!\$c53\$c3!=(1.06)

Of course this is not always possible:



2.14 +/=
R.Bianchetti
Contributo alla teoria di finali
di soli pedoni, 1925

White can make the pawn sacrifice worthless:

1 **\$**h4!

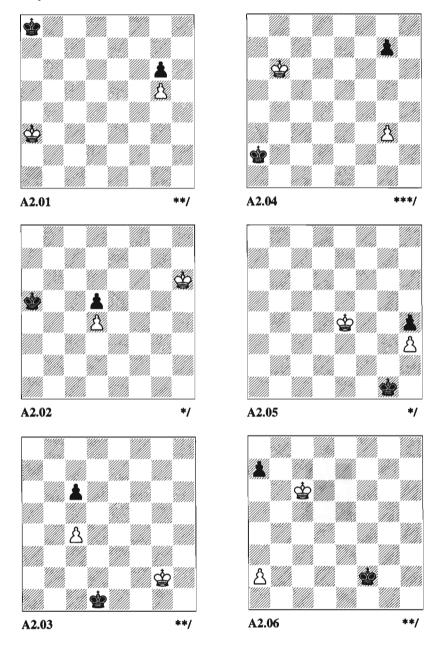
- 1 \$\prescript{9}g4? \$\prescript{9}g6 (1...b3 =) 2 \$\prescript{9}f4 \$\prescript{9}f6 3\$ \$\prescript{9}e4 \$\prescript{9}e6 4 \$\prescript{9}d4 b3! 5 cxb3 \$\prescript{9}d6! =.
- 1...화g6 2 화g4! 화f6 3 화f4! 화e6 4 화e4! 화d6
 - 4...\$d7 5 \$d5! +-.

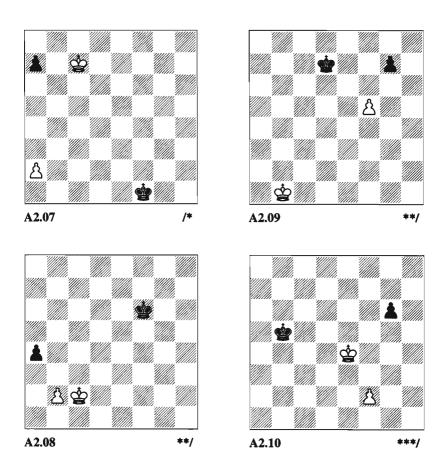
5 \$\psi d4! \$\psi c6 6 \$\psi c4! b3 7 cxb3! +--

The pawns could also be placed at g2 and f4, when the result would stay the same (though then 1 \$\dispsex\$g4 would also win), but not at b2 and a4 because in this case Black could draw after 1 \$\dispsex\$h4 \$\dispsex\$g6 2 \$\dispsex\$g4 with 2...a3.

■ Also look at Adamson 1915 (ECE 84, Av 75) w\$\precescope c8, \text{\ti}\text{\texi}\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text

Chapter 2 Exercises





Solutions to Chapter 2 Exercises

A 2.01

Hopefully you haven't been tricked by 2.02. White gets the distant opposition but this isn't enough for a win, as he can't transform it into the near opposition:

1 \psi_a4!?

 $1 \oplus h4 \oplus h8! = .$

1...\$b8! 2 \$b4 \$c8! 3 \$c4 \$d8! 4 \$d4 \$e8! 5 \$e4 \$d8!

The black pawn controls the f5-square. Therefore White doesn't achieve the near opposition.

6 **⊈d**4

6 \$\d5 \$\d7! =: 6 \$\d5 \$\d7! =.

6...\$e8! 7 \$c5 \$e7!

Diagonal opposition.

8 🕸 d5

8 **\$**c6?? **\$**e6! -+.

8...\$d7! 9 \$e5 \$e7! =

A2.02

If White tries to capture the pawn, he loses as in 2.04. Thus he must get back as soon as possible to cover the key squares:

1 항g5! 항b4 2 항f4! 항c3

2...\$\div_c4? 3 \div e5! +-.

3 **⊈**e3!

3 **\$e**5? **\$c**4! −+.

3...\$c44\$e2!\$xd45\$d2!=(1.06)

Notice that the position would be lost if it were pushed one rank below because then the black king would automatically reach a key square of the d4-pawn by capturing the d3-pawn.

A2.03 A.Mandler, 1949

We're sure you managed to evade Black's attempts to shoulder the white king away:

1 \place{1}{2}!!

 $1 ext{ } ext{$\%$} f1? c5! 2 ext{ } ext{$\%$} f2 ext{ } ext{$\%$} d2! -+ (shouldering away); 1 c5? ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{ } ext{$\%$} e2! -+ (shouldering away); 2 c5 ext{ } ext{ } ext$

away); 1 \$\psi f3? \$\psi d2! 2 \$\psi e4\$ (2 c5 \$\psi d3! \\
-+) 2...\$\psi c3! 3 c5 \$\psi c4! -+.

1...**⇔**d2

1...c5 2 \$\dispersec{1}{2} \dispersec{1}{2} \dispersec{1}

A2.04 J.Moravec, Ceskoslovensky Sach,

Shouldering away is again the main idea of this study.

1 \prec{1}{2}c5!

1 g4? \$\psib 3 2 \psic 5 \psic 3 3 \psid 5 \psid 3 4 \$\psic 5 \psic 3 5 \psid 5 \psid

1...\$b3 2 \$d4! \$c2 3 \$e3! \$d1

3...\$c3 4 g4! \$c4 5 \$e4! \$c5 6 \$e5! \$c6 7 \$e6! +- (2.09).

4 g4 \$e1 5 g5 \$f1 6 \$f3! \$g1 7 g6 \$h2 8 \$g4! \$g2 9 \$f5! \$g3 10 \$e6! +- (2.09)

A2.05 End of a study by Kubbel, Rigaer Tageblatt, 1914

The following body check appears quite often; thus we have dedicated it its own exercise:

1 \place{1}{2}f3!

 $1 ext{ } ext{4} ext{2} ext{2}$

1...\$f1 2 \$g4! \$\text{\$\text{\$\text{\$\text{\$f}2}\$ 3 \$\text{\$\text{\$\text{\$xh4!}\$} \$\text{\$\text{\$\text{\$f}3}\$ 4}}\$

■ Kubbel's study by the way goes w\$\d3.\De6.\Delta h2: b\$\dagger f3.\Delta h4: 1 h3! +-.

A2.06 J.Moravec, 1952

1 **₾**h7!

White refuses to be blocked at the edge of the board. 1 a4? \$\displays 2 a5 \$\displays 4 3 a6 \$\displays 5! 4 \$\displays 57\$ \$\displays 46! 5 \$\displays xa7 \$\displays 7!\$ is a draw.

1 05

1...\$\psi 3 2 \psi xa7! (2 a4? a5 =) 2...\$\psi d4 3 \psi b6! +--.

2 \$\document{\phi}\b6

 $2 a 4? \triangleq e 3! = .$

A2.07 M.Wahls – J.Eising, Bundesliga 1986/7

The black king is fast enough to block the white king at the edge of the board:

1...\$e2!

1...a5? 2 a4 \$\displaye2 3 \$\displaye6! +-; 1...\$\displaye2? 2 \$\displaye16! +- is A2.06.

2 a4

2 \$\psi b7 \$\psi d3 3 \$\psi xa7 \$\psi c4 =.

2...\$\d3 3 a5 \$\d\$c4 4 \$\d\$b7 \$\d\$c5

4... \$\document{\psi} b5?? 5 a6! +-.

5 \$\psi xa7 \psi c6! 6 a6 \psi c7! \frac{1}{2}-\frac{1}{2}

■ Also have a look at P.Keres-K.Richter, Munich OL 1936 (*ECE* 69): w\$g4, \$h2; b\$b2,\$\text{\(\hat{L}\) h7: 1 \$\text{\(\

A2.08 From C.Tattersall's collection, 1910

If you saw the finesse ...a3 there were surely no difficulties.

1 **\$**b1!

1 \$\precess{c}3? a3! 2 bxa3 (2 b4 \$\precess{e}6 3 \$\precess{e}5\$) \$\precess{e}d5 4 \$\precess{e}xa3 \$\precess{e}c6! 5 \$\precess{e}a4 \$\precess{e}b6! =; 2 b3\$ \$\precess{e}e6 =) 2...\$\precess{e}e6 3 \$\precess{e}c4 \$\precess{e}d6 4 \$\precess{e}b5 \$\precess{e}c7 =. 1...\$\precess{e}e5\$

1...a3 2 b3! (2 b4? \$\perpersure{9}\end{align*} 2 \perpersure{9}\end{align*} 4 \perpersure{9}\end{align*} 2 \perpersure{9}\end{align*} 4 \perpersure{9}\end{align

2 \$\pma2! \$\pmad5 3 \$\pma3! \$\pmac5 4 \$\pmaxa4! \$\pmac6 5 \$\pmac6 4! +-

■ By the way, this example has an interesting story, which is told explicitly by Averbakh (who attributes it to Maizelis). In 1884 a position with the same idea (w\$c2,\(\Delta\beta\)2,e5; b\$d5,\(\Delta\)a4) was investigated, and "a certain Dr Kassidi showed

the right way to win". Also Horwitz used this finish, while A2.08 shows the version from Tattersall's collection. Some other authors ascribe this study to Dedrle, who uses it in one of his articles (1921) without giving a source.

A2.09 J.Moravec, Ceskoslovensky Sach, 1952

Of course you have seen the pawn sacrifice f6 but hopefully you haven't carried it out immediately.

1 \(\psi \c2! \(\psi \d6 \)

1...\$e7 2 \$\dd3! \$\dd56 3 \$\dde4! =.

2 f6! gxf6

2...g6 3 \$\dd3 \$\d266 4 \$\d264 \$\d264

3 \$\preceq\$d2! \$\preceq\$e6 4 \$\preceq\$e2! \$\preceq\$e5 5 \$\precep\$e3! = (1.06)

■ Also have a look at H.Mattison (1918, ECE 856): w\$h1,\$h4,f4; b\$h6, \$f7,g5: 1 hxg5+! \$h5 2 g6! fxg6 3 f5! gxf5 4 \$g1! \$g5 5 \$f1! =.

A2.10 I.Dobias, Narodni listy, 1926

White puts Black in zugzwang with 1 \$\dd!!\$ (shouldering away). Thereby the white king keeps the three-move distance from the g-pawn.

1 \$e5? \$c4! 2 \$f6 (2 f4 \$d3! =) 2...\$d5 3 \$xg6 \$e4! 4 \$g5 \$f3! =; 1 \$d5? \$b4! 2 \$ed4 \$b3! 3 f4 \$c2! =; 1 \$f4? \$c5 2 \$g5 \$ed4 3 \$xg6 \$e4! =; 1 f4? \$c4! 2 \$e5 \$ed3! = (2.12); 1 f3? \$ec4 2 f4 \$e3! = (2.12).

1...\$c6 2 \$e5! \$c5

2...\$d7 3 \$f6! +-.

3 f4!

3 f3? cdot c4! = (2.12).

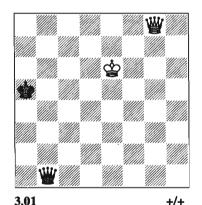
3...\psic4 4 \psif6! +--

3 Race of the Passed Pawns

In the following chapters there will again and again be lines that end with a race between passed pawns. This chapter provides the basics for a quick evaluation of such variations. Since queen endings actually don't belong in the framework of this book we only will deal with complicated queen endings when they emerge from our chosen pawn endings. We deal with three issues:

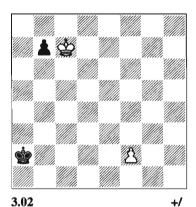
A) Both Sides Queen a Pawn

Here we consider cases where the game ends with an early mate, the loss of a queen or with a dead draw. The following diagram shows the position shortly before a vertical or diagonal skewer (of course one could also imagine a horizontal skewer):



If Black is to play, he captures the white queen by 1... \$\mathbb{\psi} b3+\$ or 1... \$\mathbb{\psi} a2+\$.

But back to pawn endings:



A.Mandler Narodni Osvobozeni, 1938

The white king is more active and he is to move. However, the immediate pawnrace leads to a draw, as does taking the pawn. Since also the blockade of the pawn (\$\Delta\$b6) doesn't achieve anything, using the method of exclusion (see 13.01/02) – without having calculated all consequences – only \$\Delta\$d6 remains as a candidate with which White keeps an eye on both pawns. (Be careful: of course one has to make sure that \$\Delta\$d6 doesn't lose immediately. During the game you don't know at once that this position is won for White.)

1 **\$**d6!!

1 \$\psib6? \$\psib3! 2 \$\psic5 \$\psic3 3 f4 b5 =; 1 \$\psixb7? \$\psib3! 2 \$\psic6 \$\psic4! =.

1...**⊈**a3

1...b5 2 \$\preceq\$c5! \$\preceq\$b3 3 \$\preceq\$xb5! \$\preceq\$c3 4 \$\preceq\$c5! \$\preceq\$d3 5 \$\preceq\$d5! +--.

2 \$c5! \$a4 3 f4!

3 \$\psid 4? \$\psib 5\$ (3...b5? 4 f4! b4 5 f5! b3 6 \$\psic 6\$ 23! \$\psia 3 7 f6! +- leads to the main line; 3...\$\psia 5 =) 4 \$\psi 6\$ \$\psib 6! 5 \$\psid 6\$ \$\psia 7\$ (6 f4 b5! 7 \$\psic 5\$ \$\psib 8 8 \$\psix 55\$ \$\psib 6! = (1.06)) 6...b5 7 \$\psic 5\$ \$\psia 6! 8 f4 b4! 9 \$\psix 54\$ \$\psib 6! =.

3...b5 4 f5

4 **\$**d4 +−.

4...b4 5 **\$**c4

5 f6? b3! 6 f7 b2! 7 f8₩ b1₩! 8 ₩a8+ \$b3 9 ₩b7+ \$a2 =.

5...b3 6 全c3! 全a3 7 f6! b2 8 f7! b1響 9 f8響+! 全a4 10 響a8+! 全b5 11 響b7+

The king manoeuvre \$\delta c4-c3\$ deserves special attention since it forces the black king to the fatal square a3, so as then to queen with check. We will meet similar ideas quite often.

We want to draw your attention once again to the key move of Mandler's study, 1 \$\times d6!!. Thereby White protected his pawn's way and was simultaneously able to attack the black pawn. Thus he pursued two aims with one move. Regarding this important issue there exists a famous study which we don't want to deny you (see following diagram):

It seems that the white position is hopeless. The c-pawn can't be supported and the square of the h-pawn is out of reach, or is it? Let's see.

1 \$2g7! h4 2 \$2f6!

White is now threatening to support his pawn with his king.

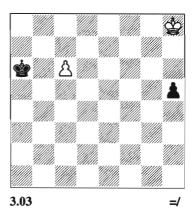
2...**⇔**b6

2...h3 3 **\$**e7 =.

3 **\$e5!!**

A sort of double attack. Black can't stop White either entering the square of the h-pawn or promoting his c-pawn.

3...h3



R.Réti Kagan's Neueste Schachnachrichten, 1921

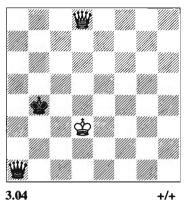
3...\$\preceq\$xc6 4 \preceq\$f4 =.

4 **\$d6!** h2 5 c7! h1**₩** 6 c8**₩!** and White draws.

Maybe this masterpiece will encourage you to look for an escape route if you are in an apparently hopeless position. By the way, Black would win in the original position if his king were on a7. In that case, instead of 2...\$\displays\$ b6, he plays 2...\$\displays\$ h8!

■ This motif, which the study composer Gurvich called 'The Hunt of Two Hares', appears in quite a few other studies and games (!) (see Averbakh 95-103), from which we select just two: de Feijter (1939, ECE 125, Av 102) w�a8,△f4; b�b5,△a6: 1�b7! a5 2�c7! �c5 3�d7! �d5 4�e7! �e4 5�e6! = and Prokeš (1946, ECE 126, Av 99) w�g8,△f3; b�h4,△a6: 1�f7! a5 2 f4! a4 3 f5! a3 4 f6! a2 5�g8! = (3.08).

In Mandler's study (3.02) the position of the black king at the edge of the board was fatal because White was able to direct him in such a way that the f-pawn could queen with check. Uncomfortable king and queen positions are characteristic for mate ideas:



After Polerio, 1590

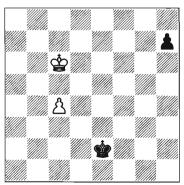
1 數b6+! \$\pma a3 2 \pma a5+! \$\pma b2 3 \pma b4+! \$\pma a2

3...**c**1 4 **w**d2+! **c**b1 5 **w**c2#!.

4 \c2! +-

■ This idea was discovered by Polerio as long ago as 1590 and illustrated in the study: w�e2,△a2; b�g2,△c7,h7 when Black to move loses because the a-pawn queens with check and the position of Black's pieces at the edge of the board will be fatal for him.

Again a study makes the idea clear:



3.05 +/

J.Fritz Svobodne slovo, 1954

By threatening to capture the h-pawn, White directs the black king into the dangerous corner:

1 \$\d5! h5 2 \$\delta e4!

2 \$\dispersection e5? \$\dispersection e3! =.

2...\$f2 3 \$f4! \$g2 4 c5!

 $4 ext{ } ext{4} ext{6} ext{6}$

4...h4 5 c6! h3 6 c7! h2 7 c8\| h1\| 8 \| c2+! \| h3 9 \| d3+ \| g2 10 \| e2+! \| g1

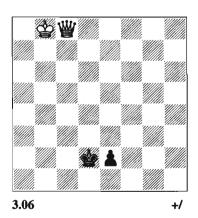
10...\$\dot\dot3 11 \dot\g4+! \dot\dot\dot2 12 \dot\g3#!.

11 **⋭**g3!

Mate can't be avoided.

B) Queen vs Pawn(s)

Normally a pawn can only be a threat to a queen when it is on the 7th (2nd) rank and is supported by its king. Then the outcome depends upon the king of the stronger side, whether he can support his queen himself. It is critical which file the passed pawn is on. We start with a central pawn:



1 ₩d7+

The first step in the winning process is to bring the queen closer to the enemy pawn.

1... - c2 2 = 44 + cd2

2...\$\d3 3 \$\dagger\$b4 and \$\dagger\$e1. If the queen gets in front of the pawn she actually wins every time.

3 \d4+ \c2 4 \e3! \cd1 5 \ed3+!

The critical moment. White forces the black king in front of the pawn and thus wins time to get his king nearer the pawn.

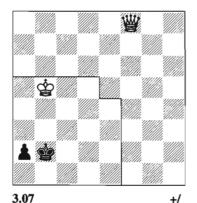
5...\$e1 6 \$b7 \$f2 7 \$\forall d4+ \$f1 8 \$\forall f4+ \$\forall g2 9 \$\forall e3! \$\forall f1 10 \$\forall f3+!

The manoeuvre repeats itself.

10...空e1 11 空c6 空d2 12 響f4+ 空d1 13 響d4+ 空c2 14 響e3! 空d1 15 響d3+! 空e1 16 空d5 空f2 17 響d4+ 空f1 18 響f4+ 空g2 19 響e3! 空f1 20 響f3+! 空e1 21 空e4 空d2 22 響d3+ 空e1 23 空f3 +-

In this case it didn't matter how far the king was away from the pawn. However, it would only be a draw if the king had been at d5, d6 or d7. Then he would make the approach of the queen impossible. With a knight's pawn the same winning method can be applied.

But with a rook's or bishop's pawn there are often difficulties:



White only wins because his king is within the winning zone.

1 ₩b4+

1 ₩f2+ �b1 (1...�b3 2 ₩d4 +-) 2 �b4 wins more quickly.

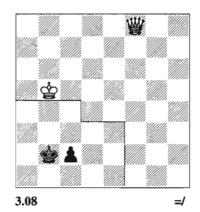
1...\$c2 2 \\$a3 \$b1 3 \\$b3+ \$a1

White has managed to force the king in front of the pawn. Because of stalemate, the white king can't support in the usual way, but White can use a mate idea that is already familiar to us.

4 wd1+ sb2 5 sb4 a1w 6 wd2+! sb1 7 sb3! +-

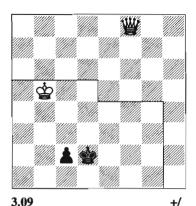
If you look at the zone carefully you will notice that the white king will either get in two moves to b3 or in one to d3 or d2 to force mate at c2.

A stalemate defence is also possible with a bishop's pawn:



- 1 \\dot b4+ \dot a2 2 \dot c3 \dot b1! 3 \dot b3+ \dot a1! 4 \dot c3+
 - 4 \sum xc2 stalemate.
 - 4...\$b1! 5 ₩d3 \$b2 6 ₩e2!? \$a1! =
- 6...**\$**b1? 7 **\$**b4 c1**₩** 8 **\$**b3! wins for White.

The zone makes it clear that White only wins if his king gets to b3 or d2 in one move. If the defending king is on the other side of the pawn, the winning zone will be a lot bigger. This is because White wins another tempo by forcing the king in front of the pawn. Also there might be mate ideas on the right side.



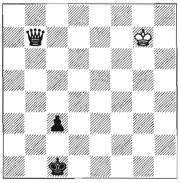
1 響f4+ 會d1

1...\$c3 2 ₩c1 +-.

2 豐d4+ 空e2 3 豐c3! 空d1 4 豐d3+! 空c1 5 空c4 空b2 6 豐d2 空b1 7 空b3! c1豐 8 豐a2#!

The reader can see for himself how White wins if he starts, for example, with his king on g4 (A3.06).

If the pawn hasn't yet reached the 7th (2nd) rank there are seldom problems in winning, but no rule is without exception:



3.10 =/= Chess World, 1865

White's own king is in the queen's way and therefore White can't prevent

the black pawn from advancing to the 2nd rank:

1 \(\psi h1 + \psi b2! 2 \) \(\psi b7 + \psi c1! 3 \) \(\psi 6 \) \(c2! 4 \psi e5 \) \(\psi d2 \)

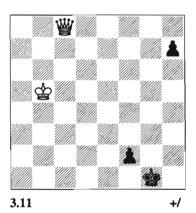
The white king is outside the winning zone (3.09). However, Black has to defend accurately.

5 ₩d5+ \$e1!

6 \dd \dd d1 7 \dd b3

7...\$d2! 8 響a2!? \$c3! 9 響a1+ \$d2! 10 響d4+ \$e2 11 響c3 \$d1! 12 響d3+ \$c1! 13 \$d4 \$b2! = (3.08)

If there is a second pawn, this might even be a disadvantage because the possibility for a stalemate doesn't exist any longer.



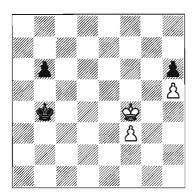
The h-pawn is only disadvantageous. 1 豐g4+ 堂h2 2 豐f3! 堂g1 3 豐g3+! 堂f1 4 堂c4 +—

The outcome of the endgame 'queen vs pawns' depends more on the concrete position than on general principles. You will find some further examples in the exercises. It should also be mentioned

that the queen might even lose against several dangerous passed pawns.

C) Transition into a Pawn Ending

If the side with the queen still has a pawn, then often an exchange of queens or a queen sacrifice with a transition into a pawn ending again leads to victory.



3.12 +/ Y.Nesterov – K.Zolnierowicz Katowice 1993

Both passed pawns queen at the same time and the queen ending with the rook's pawn would only be a draw. But instead White can force the exchange of queens:

1 **\$e5! \$c3**

1...\$\perpcox 5 2 f4! \$\perpcox 6 3 \$\perpcox 66! \$\perpcox 7 4 f5!\$\$\$\$\$ 48 5 \$\perpcox 67 (5 f6?? \$\perpcox 68! -+) 5...\$\$ 5 6 f6 b4 7 \$\perpcox 97 b3 8 f7 b2 9 f8\$\perpcox +-; 1...\$\perpcox 64?!\$\$ 2 f4! b5 3 f5! b4 4 f6! b3 5 f7! b2 6 f8\$\perpcox 91\$\$\$\$\$ 7 \$\perpcox 68 +! +- and the queens are exchanged; 1...\$\perpcox 64?!\$ also can't prevent the exchange of queens (3.01).

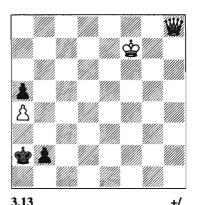
2 f4! b5 3 f5! b4 4 f6! b3 5 f7! b2 6 f8戦! b1戦 7 戦c5+! 全d2

After 7...\$\d3 8 \d4+ \d2 9 \d4+! \d2 xe4+ 10 \d2 xe4! \d2 11 \d2 f5! \d2 12 g6! gf4 13 gxh6! +- Black is short of one tempo.

8 \(\psi f2+! 1-0\)

Due to 8...\$\psi_c3 9 \$\psi_d4+!\$ (9 \$\psi_e3+?\$ \$\psi_d3 10 \$\psi_xd3+ \$\psi_xd3!\$ 11 \$\psi_f6 \$\psi_e4\$ 12 \$\psi_g6 \$\psi_e5!\$ 13 \$\psi_xh6 \$\psi_f6! => 9...\$\psi_b3 10 \$\psi_b6+! \$\psi_c2 11 \$\psi_xb1+ \$\psi_xb1\$ 12 \$\psi_f5 +-.\$ The black king is too far away to be able to block the white king at the edge of the board.

In the next study, a typical staircase manoeuvre leads to victory:



Y.Averbakh, 1962

1 ₩h2! �a1

1...\$\psi_a3 2 \$\psi_c2 +--.
2 \$\psi_e5! \$\psi_a2 3 \$\psi_d5+!

3 \subsection xa5? b1\subsection! = would only win if White could then force the exchange of queens.

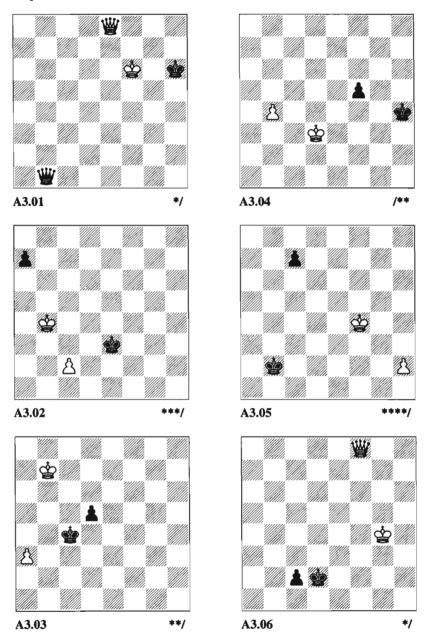
- 3...\$a1 4 ₩d4! \$a2 5 ₩c4+! \$a1 6 ₩c3! \$a2 7 ₩c2! \$a1

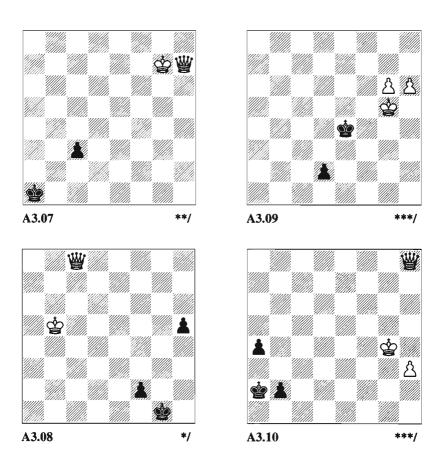
White has placed his queen in the best way. With the approach of his king he now forces a transition into a won pawn ending.

8 堂e6! b1¥ 9 ¥xb1+! \$xb1 10 \$d5! \$c2 11 \$c4! +-

The black king doesn't get to c5 in time.

Chapter 3 Exercises





Solutions to Chapter 3 Exercises

A3.01 Martens - Grabczewski, Lund 1968

No problems:

1 ₩e3+!

1 % h8 + ? % h7 = .

1...**⊈**h7

1...\$h5 2 \$\mathbb{#}\h3#.

2 We7+ Sh6 3 Wg7+ Sh5 4 Wg5#!

A3.02 N.Grigoriev, 1931

Rather more problems?!

The white king is already well placed because he can support his own pawn as well as stopping the black pawn. So at first White pushes the pawn and then uses his time advantage through skilful king manoeuvres in order to win the fresh black queen with a check on the long diagonal or queen his pawn with check.

1 c4! \$\d4 2 c5! \$\d\$e5

2...\$\d5 3 \delta 5! +- see the main line; 2...a5+ 3 \delta 55! a4 4 c6! a3 5 c7! a2 6 c8\$\delta\$! a1\$\delta\$ 7 \$\delta\$h8+! +-.

3 \$\dasplas a5!

3...\$e6 4 \$a6! \$d5 5 \$b5!

Now Black is in zugzwang.

5...**⊈**e5

5...\$\perpensecond 6 \perpensecond 6 \perpense

6 \$\psic6! a5 7 \$\psib7 a4 8 c6! a3 9 c7! a2 10 c8\$\psi! a1\$\psi 11 \$\psib h8+! +-

■ The starting position is also won for White with w\(\preceq\)c4 and b\(\preceq\)f3 (Grigoriev 1929, ECE 87, Av 82): 1\(\preceq\)d4!! +-.

A3.03 C.Schlechter - G.Marco, Vienna 1893

Like in the study by Réti (3.03), White manages to support his pawn or to capture the black one.

1 a4!

1 \$\ddots \text{b6}? \ d4! 2 \ a4 \ d3! 3 \ a5 \ d2! 4 \ a6 \ d1\$\dagger!! 5 \ a7 \$\dagger# d5 \dagger +.

1...⊈h4

1...d4 2 a5! =

2 \$b6!! 1/2-1/2

In view of 2...d4 (2...\$xa4 3 \$c5! =) 3 a5! =

A3.04 M.Najdorf - Vinueza, Mar del Plata 1941

White threatens to stop the black pawn by \$\circ\$e2 and then to queen his pawn in complete safety. Therefore Black has to secure the way to the 8th rank for his pawn.

1...\$h3!

Not 1...\$\preceq\$g3?, when White queens his pawn with check: 2 b5! f4 3 b6! f3 4 b7! f2 5 b8\$\preceq\$+! +-. 1...f4? 2 \$\precep\$e2! \$\precep\$g3 3 \$\precep\$f1! +- (3 b5? \$\precep\$g2! =).

2 b5

 $2 ext{ } ext{2} ext{2} ext{3} ext{!} =. Black wins the missing tempo by ... f4+.$

2...f4! 3 \$\div e4 \$\div g3!

Black exploits the misplacement of the white king to draw with his bishop's pawn against the queen. 3...\$\dot\delta g4? 4 b6! f3 5 \delta e3! \$\delta g3 6 b7! f2 7 b8\$\delta +! +-.

4 b6 f3! 5 b7 f2 6 b8 $\frac{1}{2}$ + $\frac{1}{2}$ g2 = $\frac{1}{2}$ - $\frac{1}{2}$. The white king is not in the winning zone (see 3.08).

A3.05 N.Grigoriev

A difficult one in which the final aim was to queen the pawn with check, and so to avoid the drawn position 3.08.

1 **⊉**e4!

1 h4? c5! 2 h5 c4! 3 h6 c3 4 h7 c2 5 h8豐+ \$\psi\$b1 = (3.08); 1 \$\psi\$e5? \$\psi\$c3! 2 h4 (2 \$\psi\$d5 \$\psi\$d3 3 h4 c5 =) 2...c5! 3 h5 c4 4 h6 \$\psi\$b2 (4...\$\psi\$b3 =) 5 h7 c3! 6 h8豐 c2! 7 \$\psi\$e4+ \$\psi\$b1 = (3.08).

1...**∲**b3

1...\$c3 2 h4! c5 3 h5 c4 4 h6 \$b2 (4...\$b3 5 h7 c3 6 h8\$c2 7 \$\mathbb{\pi}\$a1! +-;

4...\$\perpdot 25 h7! c3 6 h8\perpdot! c2 (3.09) 7 \perpdot b2
\$\perpdot d1 8 \perpdot d3 +--) 5 h7 c3 6 h8\perpdot +--; 1...c5
2 \perpdot d5! \perpdot c3 3 \perpdot xc5! \perpdot d3 4 \perpdot d5! \perpdot c3 5
\$\perp c5! \perpdot 63 6 \perpdot f5! +--.

2 \$\d4!

2 \$\psid5? \$\psib4! 3 h4 (3 \$\psic6 \$\psic4 =) 3...c5! =.

2...\$b4 3 h4! c5+ 4 \$e3!

White avoids checks from the c-pawn. 4 \$\pm\$d3? \$\pm\$b3! 5 \$\pm\$d2 \$\pm\$b2! 6 \$\pm\$d3 \$\pm\$b3! 7 h5 c4+! =.

4...\$b3 5 h5! c4 6 h6! c3 7 h7! c2 8 \$d2! \$b2 9 h8對+! +-

■ On this subject there are a whole lot of further studies and games (see ECE 87-136), of which we would like to mention L.Ljubojević-W.Browne, Amsterdam 1972 (ECE 104): w\$\phi_3\$,\text{\Delta}53; b\$\phi_5\$c6, \text{\Delta}f7: 1...\$\phi_5\$!! (the game actually saw 1...\$\text{tf}? 2 \phi_5\$b\$! (the game actually saw 1...\$\text{tf}? 2 \phi_5\$b\$! (3 \phi_3\$af 5! 4 \phi_5\$b\$ f\$! 4 \phi_5\$ f\$! 5 \phi_5\$c5 6 b6 \phi_6\$c6! —+.

A3.06 Instructive example

If you saw the mate idea at e2 the exercise shouldn't have been too difficult for you.

1 \bullet b4+ \dd1 2 \bullet b3

2 \(\mathbb{\psi} d4 + \(\mathbb{\psi} c1 \) 3 \(\mathbb{\psi} f3\)? (3 \(\mathbb{\psi} a1 + \mathbb{\psi} d2 \) 4 \(\mathbb{\psi} b2\)! \(\mathbb{\psi} d1 \) 5 \(\mathbb{\psi} f3\)! +--) 3...\(\mathbb{\psi} b1 = \text{. White mustn't allow the black king to the short side (3.08).}\)

2...\$d2 3 \$\dagger b2! \$\d1 4 \$\f3! c1 \dagger 5 \$\d2#!

A3.07 I.Horowitz, 1956

The white king is far away from the c-pawn so it should not advance:

1 Wh6!

1...\$b2 2 \#f6

2 **\#**b6+ +-.

2...\$b3 3 **對d4** \$c2

3...c2 4 \mathred{\pi}a1! +-.

4 \$\psi 6 \$\psi b 3 5 \$\psi e 5 \$\psi c 2 6 \$\psi e 4 \$\psi b 3 7\$ \$\psi d 3 +--

A3.08 After N.Grigoriev

Hopefully you haven't thought for too long to find a win for White – because there is none as the white queen doesn't have access to the g4-square. By the way, the position would also be a draw with the pawn at h4 instead of h5 (then the g3-square is missing).

1 \(\psi g8+ \(\psi h2 \) 2 \(\psi f7 \(\psi g2 \) 3 \(\psi g6+ \\ \psi h2 \) 4 \(\psi f5 \)

 $4 \text{ \cong xh5} + \text{ \cong g2} = (3.08).$

4...\$g25\#g5+\$h26\#f4+\$g2!=

6...\$\perp g1? 7 \bigw g3+! \$\perp f1 8 \perp c4 h4 9 \bigw g4 h3 (9...\$\perp e1 10 \bigw xh4 +-) 10 \perp d3 h2 11 \bigw f3 \perp g1 12 \perp e2 h1 \div 13 \bigw h3 +-.

■ For some similar positions see, for example, Six Hundred Endings Nos. 418-20; there it will also be explained why it is sensible to ascribe this position to Grigoriev even though we like to mention that his studies are much more difficult than this position. A practical use of this position appeared in J.C.Diaz-Camacho Penate, Pinar del Rio 1996: w�a7, △f4,g5; b�h1,△g7,h5: 1...g6! (after 1...h4? 2 f5! the resulting queen ending is lost for Black) 2 f5 gxf5! 3 g6 f4! 4 g7 f3! 5 g8₩ f2! =.

A3.09 F.Lamprecht, Original

For sure you have quickly noticed that your new queen will be lost through a skewer if you queen one of the pawns immediately. So in two moves you have to build a fortress against the queen:

1 g7!

1 h7? d1\(\psi\)! 2 h8\(\psi\) (2 \(\phi\)f6 \(\psi\)d4+ 3 \(\phi\)f7 \(\psi\)h8 \(-+\) 2...\(\psi\)c1+ 3 \(\phi\)g4 (3 \(\phi\)f6 \(\psi\)a1+ \(-+\) 3...\(\psi\)g1+ 4 \(\phi\)h3 \(\psi\)h1+! \(-+\).

1...d1\\ 2 \\ g6!

 $2 ext{ } 6? ext{ } ext{ } d5 ext{ } -+; 2 ext{ } h7? ext{ } ext{ } ext{ } d5+! ext{ } -+ (after this White loses one of the pawns; not }$

- 2... \(\exists d8+? \) \(\exists g6! \) \(\exists e8+ 4 \) \(\exists f6! \) \(\exists e5+ 5 \) \(\exists f7! \) \(\exists f5+ 6 \) \(\exists g8! =); \(2\) \(g8\)\(\exists g8\)\(\exists g1+! \)
 \(-+\).
- 2... 學d5 3 \$h7! 學f7 4 \$h8 學f6 5 \$h7! =

A3.10 C.Diesen, 1968

The black pawns are already far advanced. Thanks to his h-pawn and the king, which is just near enough, White is still able to win:

1 ₩g8+!

1 數d4? a3! 2 wc4+ 空a1! 3 數b3 a2! 4 數c3 空b1 5 數d3+ 空c1! only leads to a draw.

1...**⊈**a3

1...\$\dal 2 \downarrow a8 b1\downarrow 3 \downarrow xa4+!\$\downarrow b2 4 \downarrow b4+ \downarrow a2 5 \downarrow xb1+!+--.

2 **省**f8+!

2 ₩g6? b1₩! =.

2...\$a2 3 \#f7+! \$a3 4 \#e7+

4 \#f3+ \approx a2 5 \#d5+! +-.

4...\$\psi a2 5 \psi e6+ \psi a3 6 \psi d6+ \psi a2 7 \psi d5+! \psi a3 8 \psi d3+! \psi a2 9 \psi c2! a3

9...\$\precap a3 10 \$\precap b1! \$\precap b3 11 \$\precap f3! a3 12 \$\precap d3+! \$\precap a2 13 \$\precap c2! +-.\$

10 \$\psi f3! \$\psi a1 11 \$\psi b3! a2 12 \$\psi c3! \$\psi b1 13 \$\psi d3+! \$\psi c1\$

13... \$\polengrightarrow\$a1 14 \$\psycdet\$d4! \$\polengrightarrow\$b1 15 \$\psycdet\$d1#!.

14 **\$e2!** b1**4**

14...a1 ¥ 15 ¥d1#!; 14...b1 ¥ 15 ¥d2#!.

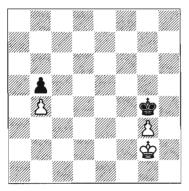
15 賞d4 +--

4 Small Number of Pawns

Since Chapter 2 has dealt with king and pawn vs king and pawn, we now deal with positions in which one side has two pawns and the other one, but we have excluded rooks' pawns due to the many special cases (Chapter 5 is dedicated to them). In the following we mostly deal with the opposition. But sometimes this restricted way of looking at it is not sufficient and we have to use the more general theory of corresponding squares in anticipation of Chapter 12.

A) Blocked Pair of Pawns and a Passed Pawn

Here the attacker usually wins by sacrificing his passed pawn in order to capture the last of the opponent's pawns. This deflection of the defending king is only unsuccessful if a counter-attack is threatened or the pawns are very close to each other. We start with a straightforward example:

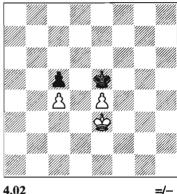


+/-4.01

White just sacrifices the g-pawn and queens the b-pawn:

1 \$\psi f2 \$\psi g5 2 \$\psi e3 \$\psi g4 3 \$\psi d4 \$\psi xg3 4 \$\psic 5 \psi f4 5 \psi xb5 \psie 5 6 \psic 6 +-

If the passed pawn is only two files away from the blocked pawns, the win is more difficult or even impossible:



If White is to move, he is in zugzwang because the black pawn controls the d4square, and Black is saved by a counterattack against the white c-pawn:

1 \place{1}{2}f3

1 \$\psi d3?! \$\psi f4! =.

1...\$\psi d4! 2 \$\psi f4 \$\psi xc4! 3 e5 \$\psi b3!

3...\$d5? 4 \$f5! +-.

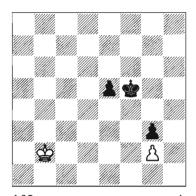
4 e6 c4! 5 e7 c3! 6 e8\dagger c2! = (3.08)

It should be noted that Black only achieved a draw here because he had a bishop's pawn. White would win if all pieces were moved by one file.

With Black to move, White wins easily: 1...\$e6 2 \$f4! \$f6 3 e5+! \$e7 (3...\$e6 4 \$e4! \$e7 5 \$d5 +-) 4 \$f5!

⊈f7 5 e6+! ⊈e7 6 ⊈e5! ⊈e8 7 ⊈d6 ⊈d8 8 ⊈xc5 +-.

Drawn positions also occur when the defender's pawn is blocked on its starting point:



4.03 =, H.Westerinen - V.Smyslov Szolnok 1975

Even though the black king gets the opposition in front of his pawn, Black isn't able to win:

1 \$\psi_c3 \$\psi_e4 2 \$\psi_d2!\$

White has to defend the key squares d3 and e3.

2...\$d4 3 \$e2! \$c4 4 \$d2!

4 \$\pmes 2 \pmes 2 \cdot 5 \$\pmes 2 \cdot 5 \$\pmes 2 \cdot 5 \$\pmes 4 \pmes 2 \cdot 1 \cdot 7 \pmes 1 \cdot 5 \cdot 5 \cdot 5 \pmes 2 \cdot 6 \pmes 2 \cdot 6 \pmes 2 \cdot 6 \cdot 6 \cdot 5 \cdot 6 \cdot 6

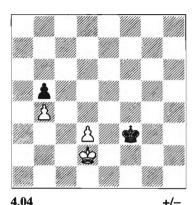
4...\$\psi d4 5 \psi e2! \psi c3 6 \psi e3! \psi c2! 7 \psi e2! e4 8 \psi e1!

8 \prescript{\phi}e3? \phi\d1! 9 \phi xe4 \phie2! -+.

8...\$\d3 9 \$\d1! e3 10 \$\d2 e1! e2 \text{ stalemate (1/2-1/2).}

The following study illustrates typical problems with a passed pawn that is not far advanced (see next diagram):

Here the active black king causes difficulties. For a better understanding it is



N.Grigoriev
K novoi armii, 1920

useful to make some preliminary considerations. White wins easily if it is Black to move in the starting position. Black has to lose control over e2 and White's king gets to e3, which enables him to win in a way that is familiar from 4.02; Black has a knight's pawn! e2, e3 and obviously also d4 are therefore key squares. From the starting position we see that Black has to answer \$\preceq\$d2 with ...\$\precep\$f3 in order to defend the key squares. We call such a pair of squares corresponding squares. Also c3 and e3 are corresponding squares since Black has to defend d4. Since White can move from c2 to either d2 or c3, f4 is the corresponding square since from here Black can get to either f3 or e3. If we examine the adjacent squares we notice that the squares b2 and b3 (White threatens \$\displace2\) or \$\displace2\) only correspond with the f3-square. Because Black can't stay at f3, we have found the winning plan:

1 \cdot c2

1 d4? \$\psic4! 2 \$\psic3 \$\psif5! 3 \$\psid3 \$\psif4! is a draw.

1...**⊈**f4

1...\$\dispers e3?! 2 \dispers c3! +-.

2 \$\psi b3 \$\psi f3 3 \$\psi b2

Black is in zugzwang.

3...\$f4 4 \$c2!

Now White occupies the corresponding squares:

- 4...**⇔**e5
- 4...\$\psi f3 5 \$\psi d2! \$\psi f4 6 \$\psi e2! \$\psi e5 7\$\$\$\$\psi e3! +- transposes to the main line at move 8.
 - 5 **\$**d1!
 - 5 \$\d2?! \$\d4.
- 5...\$\pm\$d5 6 \$\pm\$e2 \$\pm\$d4 7 \$\pm\$d2! \$\pm\$e3! \$\pm\$d5 9 \$\pm\$d4! \$\pm\$c4 10 \$\pm\$e4! \$\pm\$xb4 11 \$\pm\$d5! \$\pm\$c5
- 11...\$\pm\$a3 12 d6! \(\to \) (see 3.06); 11...\$\pm\$a5 12 \$\pm\$e5 b4 13 d6! \$\pm\$b6 14 \$\pm\$e6 b3 15 d7! \$\pm\$c7 16 \$\pm\$e7! \(\to \).

12 \$\pmese5! b4 13 d6! \$\pmesec6 14 \$\pmese6! b3 15 d7! b2 16 d8\$\pmesec9! b1\$\pmesec9 17 \$\pmesec8+! +-

If you are now keen to deal with the corresponding squares in detail, we can refer you to Chapter 12, where we examine this position again (12.02).

B) Protected Passed Pawn

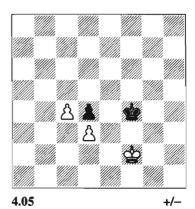
The biggest advantage of a protected passed pawn is (as the description implies) that it can't be captured. Therefore the attacking king is free to manoeuvre and that's why most positions are won, but even here there are a few important exceptions.

In example 4.05 White is only able to win by penetrating with his king on the queenside. Black is helpless against that because his king has to stay in the square of the protected passed c4-pawn and he doesn't have access to the b5-square.

1 **©**e2

White is not able to advance on the kingside: 1 \$\preceq 2?! \$\preceq g4 2 \$\preceq h2 \$\preceq f4!? 3 \$\preceq h3 \$\preceq f5 4 \$\preceq h4 \$\preceq f4.\$

1...**⊈e**5



1...\$\psig4 2 \psid2 \psif5 3 \psic2 \psif4 4 \psib3\$ \$\psie3 5 c5 \psixd3 6 c6! +-.

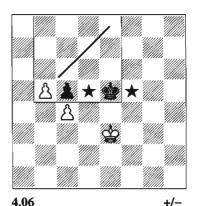
2 \$\psi d2 \$\psi d6 3 \$\psi c2 \$\psi c6 4 \$\psi b3 \$\psi c5 5\$ \$\psi a4 \$\psi b6 6 \$\psi b4 \$\psi c6 7 c5 \$\psi d5\$

7...\precent c 7 8 \precent c 4 +-.

8 \$b5! +-

If you move 4.05 to the left, White cannot win (see 4.07 or A4.04).

The following position is also won:



Here, in contrast to 4.05, White cannot penetrate on the side of the protected passed pawn because Black is always able to answer \$\delta 4\$ with ...\$\delta 6\$. Still, Black can't hold the position because he

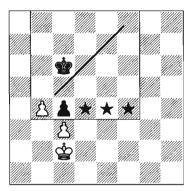
has to stay in the square of the b5-pawn and he can't prevent White from advancing to the key squares of the c5-pawn.

Note: if one key square is not in the square of the passed pawn, the position is lost.

1 \psi f3 \psi d6

- 1...\$f5 2 b6 +--.
- 2 \$64 \$e6 3 \$e4 \$d6 4 \$f5 and White wins.

The following example shows a typical drawn position:



4.07 =/= After **Walker**, 1892

This position is, in contrast to 4.06, a draw since Black can either prevent the white king from penetrating or he can create sufficient counterplay against the c-pawn:

1 \$\psi d2 \$\psi d5 2 \$\psi e3 \$\psi e5! 3 \$\psi f3 \$\psi f5! 4\$ \$\psi g3 \$\psi e5\$

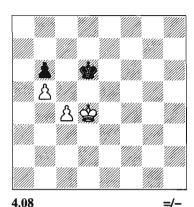
4... 全e4 5 全g4!? 全e5! (5... 全d3? 6 b5! 全xc3 7 b6! 全d2 8 b7! c3 9 b8變! c2 10 變b2! 全d1 11 全f3! +- (3.09)) 6 全g5!? 全e4! 7 全f6 全d3! 8 b5 全xc3! 9 b6 全d2! 10 b7 c3! 11 b8變 c2! = (3.09).

5 \$\pmu_{\text{g4}} \pmu_{\text{e4!}} =

Note that all the key squares of the c4-pawn are in the square of the protected passed pawn.

C) Backward Pawn

In this case the chances for a successful defence increase:



A.Philidor, 1747

If White is to move, he can't win because he doesn't manage to get the opposition.

1 \$\d3!? \$\d7

Distant opposition. 1...\$\psi 7 2 \$\psi 63\$
\$\psi 47! =; 1...\$\psi c5? 2 \$\psi c3! \$\psi 46 3 \$\psi 44!\$
\$\psi 6 4 c5! bxc5+ (4...\$\psi 7 5 c6+! \$\psi 46 6\$
\$\psi 4 \$\psi 6 7 c7 \$\psi 47 8 \$\psi 65 \$\psi xc7 9 \$\psi 6!\$
+- (2.01)) 5 \$\psi xc5! +- (A1.04).

2 \phie4 \phie6 =

Vertical opposition. 2...\$\precepe{2}\text{e8}\$ (distant opposition) 3 \$\precepe{2}\text{e5}\$ (3 \$\precept{e5}\$f5 \$\precept{e3}\$d7! = diagonal opposition) 3...\$\precepe{2}\text{e7}! 4 \$\precept{e3}\$d5 \$\precept{e3}\$d7! with a draw.

If Black is to move, he has to give up the opposition, and loses:

1...**⇔**c7

1...\$e6 2 c5! +--.

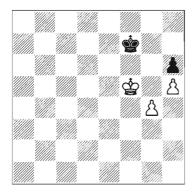
2 \$e5!

This gets the diagonal opposition, which is then transformed into a winning near opposition:

2...\$\d7 3 \$\d5! \$\d5! \$\d5! +-

White has reached one of the key squares of the b6-pawn and would now win even without the c4-pawn (see 2.01). If one moves 4.08 one file to the left, the position would be drawn even with Black to move because b4-b5 wouldn't be a winning idea due to the remaining rook's pawn.

This was discussed in the world championship match in 1894 in a slightly different form:



4.08A =/-W.Steinitz - Em.Lasker New York Wch (6) 1894

1 \presection e.5 \presection e.7!

1...\$g7? 2 \$e6! +-.

2 \$\d5 \$f6

2... \dot d7 3 g5 \dot e7 4 g6 = reveals a further special quality of the rook's pawn (6.01H).

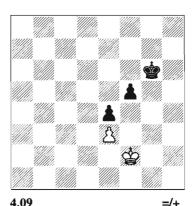
3 \$e4 \$e6

3...\$\psig5\$ also defends: 4 \$\psif3\$ \$\psif6! 5\$ \$\psif4\$\psice6! 6 \$\psie4\$ \$\psif6! =.

4 \$\psi d4 \$\psi f6 \frac{1}{2} - \frac{1}{2}

The following example, from the practice of modern grandmasters, is more difficult (see next diagram):

Here we have the additional possibility of penetrating with the king on the



J.Timman – A.Yusupov

Amsterdam Donner mem 1994

queenside. But if White is aware of the rules of distant opposition, he can prevent Black from reaching the critical squares of the e3-pawn and his position can't be conquered:

1 **\$**g2!

1 \$\prescript{\phig3?} \phig5! 2 \$\phif2 \phih4! 3 \$\phig2\$ \$\phig4! 4 \$\phif2 \phih3! -+ (4.08).

1...\$g7 2 \$g1

2 **\$**g3 =.

2...\$f73\$f1\$e64\$e2\$d55\$d2 \$d66\$d1!

Since White has to prevent Black's king from penetrating on both the queenside and the kingside, this is the only move. 6 \$\phic2? \$\pme66 7 \$\pme63 (7 \$\pmed 62 \$\pme66 8 \$\pmed64 \$\pme25 9 \$\pme65 2 \$\pme4h! -+) 7...\$\pmedf6 8 \$\pmed64 \$\pmeq5 9 \$\pme65 \$\pme964 -+.\$

6...\$c5 7 \$c1!

7...\$b5 8 \$b1! \$a5 9 \$c1

Here the game was drawn. 9 &c2 is also possible since the following attempt to penetrate the position is also useless: 9...\$\dagger a4 10 \dagger c3! \dagger a3 11 \dagger d4! \dagger b3 12 \dagger e5! \dagger c4! 13 \dagger xf5! \dagger d5! = (A2.02). Instead the stereotyped attempt to keep the distant opposition through 9 \dagger a1?

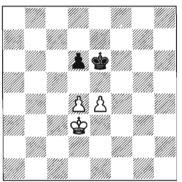
loses because then the breakthrough 9...f4 10 exf4 e3! -+ is possible.

1/2-1/2

Black to move would have won easily with 1...\$\ph\$1.2 \$\ph\$1 \$\ph\$5! 3 \$\ph\$12 \$\ph\$4! 4 \$\ph\$2 \$\ph\$3! -+. The corresponding squares to 4.09 will be determined in A12.01.

D) Others

At first we look at flexible pawn-structures:



4.10 +/-

Positions like the one in this example are usually won, thanks to White's spare tempo:

1 **\$**c3

1 \$\pic4? d5+! =; 1 \$\pic8 \pif7 2 \$\pif4\$ \$\pig6 (2...\$\pif6 3 d5 +- (4.08)) 3 \$\pig4 (3 e5? \$\pif7! 4 \$\pif5 dxe5! 5 \$\pixe5 \$\pic6 7! = (1.06)) 3...\$\pif6 4 \$\pih5 +-.

1....\$d7 2 \$b4

2 d5? &c7 = (4.08).

2...\$c6 3 \$a5 \$b7

3...d5 4 e5! +- (4.06).

4 \$b5 \$c7 5 \$a6 \$c6 6 d5+

Up to now we hardly needed any exclamation marks because a win was

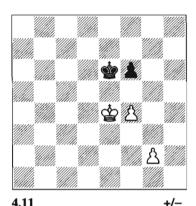
possible on both wings. After using the spare tempo this isn't the case any more:

6...**⇔**c7

6...\$c5 7 \$b7! \$d4 8 \$c6 \$e5 9 \$c7+-.

7 \$\pma 27 \$\pma c8 8 \$\pma b6! \$\pma d7 9 \$\pma b7! \$\pma d8 10 \$\pma c6! \$\pma e7 11 \$\pma c7 +-

Also in the following position there are several ways to win:



J.Berger, 1890

Since White still has the spare tempo g2-g3 the position is won, no matter who is to move.

1 ⊈d4

1 g4? f5+! =.

1 f5+ \$\precede{\phi}\$d6 2 \$\precede{\phi}\$f4! \$\precede{\phi}\$e7 3 \$\precede{\phi}\$g4 \$\precede{\phi}\$f7 4 \$\precede{\phi}\$h5 \$\precede{\phi}\$g7 5 g3! \$\precede{\phi}\$h7 6 \$\precede{\phi}\$g4! and then:

a) 6...\$\psi\$h67\$\psi\$f3\$\psi\$g5 (7...\$\psi\$h5 8 \$\psi\$f4 \$\psi\$h6 9 g4! +--) 8 g4! +-- (4.09).

b) 6...\$\psig7 7 \Psif4 \Psif7 8 \Psie4! \Psie7 9 \Psid5! \Psid7 10 g4! \Psie7 11 \Psic6! +-.

1...\$f5 2 \$e3! \$g4

2...\$\perpensec*2 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 3...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4 \perpensec*2 et al. (now we have the starting position with Black to move) 4...f5+4

3 \$e4! \$h4!? 4 \$f3!

4 \(\psi f5? \(\psi g3! = . \)

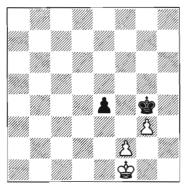
4...f5 5 \$f2!

5 g3+? \$\psi h3! 6 \$\psi f2 \$\psi h2! =.

5...\$g4 6 g3! \$h5 7 \$f3! \$g6 8 \$e3! \$f6 9 \$d4 \$e6 10 \$c5! +-

The white king has advanced to the key squares of the f5-pawn.

Let's now have a look at positions with pawns on adjacent files:



4.12 +/=
After N.Grigoriev

If the stronger side has a passed pawn, he usually wins.

1 **⊈**e2!

1 \$\preceq\$2?! \$\preceq\$f5 2 \$\preceq\$h3 \$\preceq\$g5 3 \$\precep\$h2! +- (3 g4? \$\precep\$f4! 4 \$\precep\$h4 \$\precep\$f3! =).

1...\$g5 2 \$e3 \$f5 3 \$d4 +−

If Black is to play, he only manages to draw because he can immediately remove all the pawns: 1...\$\perpressure\$f3! (1...e3? 2 f4! {2 fxe3? \$\perpressure\$f3!! =} 2...\$\perpressure\$f5 3 \$\perpressure\$e1 +-) 2 \$\perpressure\$e1 e3! 3 fxe3 \$\perpressure\$xe3! =.

With disconnected pawns the drawing chances are higher (see next diagram):

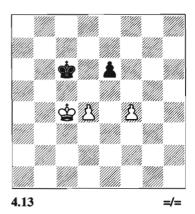
If the king isn't able to penetrate, it doesn't even demand very precise play:

1 **⊈c3**

1 d5+ exd5+ 2 2 4 4 2 6 3 f5 2 6 4 2 7 4 2 8 6 =

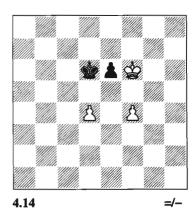
1...\$d5 2 \$d3 \$c6

2...\$\psid6 3 \psie4 \psid7! 4 \psie5 \psie7! 5 f5 exf5! 6 \psixf5 \psid6 =.



3 \$\pmeq\$e4 \$\pmeq\$d6 4 d5 exd5+ 5 \$\pmeq\$f5 \$\pmeq\$e7 6 \$\pmeq\$e5 d4 7 \$\pmeq\$xd4 \$\pmeq\$f6 =

In the next diagram the white king is much more active:



Here Black mustn't allow the white king to penetrate via e8. He therefore has to keep the side opposition:

1 \$\psi f7 \$\psi d7! 2 \$\psi f8 \$\psi d8! 3 \$\psi g8 \$\psi c8! \\ 4 \$\psi h7 \$\psi d7! 5 \$\psi g7 \$\psi c7! \end{array}

5...\$e7? 6 \$g6 +- or 6 d5 +-.

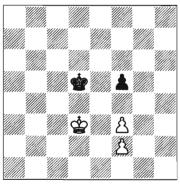
6 \(\prig \) g6 \(\prig \) c6! =

This variation shows that the position is lost if it is moved three files to the left because the black king at a6 couldn't keep the opposition after 1 \$\psi\$d6 (Chéron 1926, ECE 983).

If Black is to move, he can't prevent penetration via e8: 1...\$\pm\$d7 2 \$\pm\$f7! (2 \$\pm\$e5? \$\pm\$e7! = (4.13)) 2...\$\pm\$d6 3 \$\pm\$e8! \$\pm\$d5 4 \$\pm\$e7 \$\pm\$xd4 5 \$\pm\$xe6! \$\pm\$e4 6 f5! +-.

E) Doubled Pawns

It's much more difficult to win with doubled pawns than with connected ones, but there are also a lot of winning ideas that shouldn't be underestimated. The doubled pawns take away squares from the opposing king and they can provide spare tempi.



4.15 =/=

Here White can't use his spare tempo in a winning way since Black has enough corresponding squares.

1 de3 de5!

1...\$\perp e6? 2 \perp d4! \perp d6 3 f4! +-.

2 f4+ \$\psi d5! 3 \$\psi f3 \$\psi e6!

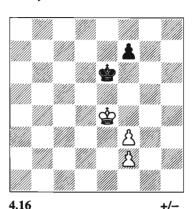
3...\$\psi d4? 4 \psi g2! \psi d5 5 \psi h3! \psi e4 6 \psi g3! +--.

4 \$\pm\$g3 \$\pm\$f7 5 \$\pm\$h4 \$\pm\$g6! 6 f3 \$\pm\$h6! 7 \$\pm\$g3 \$\pm\$h5 8 \$\pm\$f2 \$\pm\$h4! 9 \$\pm\$e3 \$\pm\$g3! =

If Black is to play, he holds the draw by just keeping the opposition: 1...f4 2 \$\div c3 \div c5! 3 \div d3 \div d5! 4 \div e2 \div c4 5

\$\psi_1 \psi_d3! 6 \psi_g1 \psi_e2 7 \psi_g2! \psi_e1! 8 \psi_g1! =.

When Grigoriev deals with it, it immediately becomes more difficult:



4.16 N.Grigoriev 64, 1936

The study is won irrespective of whose move it is. However, if White is to move, he has to be very precise:

1 \plus f4!

1 f4? f6! 2 f5+ \$\psi 66! 3 \$\psi 44 \$\psi 66! 4\$ \$\psi 3 \$\psi 65 5 \$\psi f3 \$\psi 44! 6 \$\psi f4 \$\psi 65! 7 f3\$ \$\psi 66! 8 \$\psi g3 \$\psi e7! 9 \$\psi h4 \$\psi f7 10 \$\psi g4\$ \$\psi f8! =.

1...\$f6 2 \$g4! \$g6 3 f4!

Only now, when the black king has less space for manoeuvres, does this lead to victory.

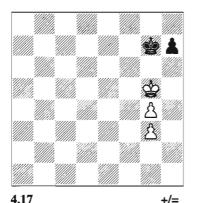
3...f6 4 f5+! \$\psi f7 5 \$\psi f4 \$\psi e7 6 \$\psi f3\$ \$\psi d6\$

6...\$f77\$e4!+-.

7 \$\psig4! \$\psie5 8 f3! \$\psid4 9 \$\psih5! \$\psie5 10 \$\psig6! +-\$

With Black to move it's not that difficult: 1...\$6 2 \$64 \$263 \$25 \$25 \$4 \$4+ \$264 5 \$5 \$265 6 \$64 (6 \$66 \$265 7 \$63! \$266 8 \$64! \$265 9 \$266 \$10 \$65+! and White wins.

The following study by Fine is also attractive:



R.Fine
Basic Chess Endings, 1941

Here the doubled pawns are on an adjacent file, which brings another possibility into play, viz. the exchange of pawns. If White is to move, he is able to realize this idea:

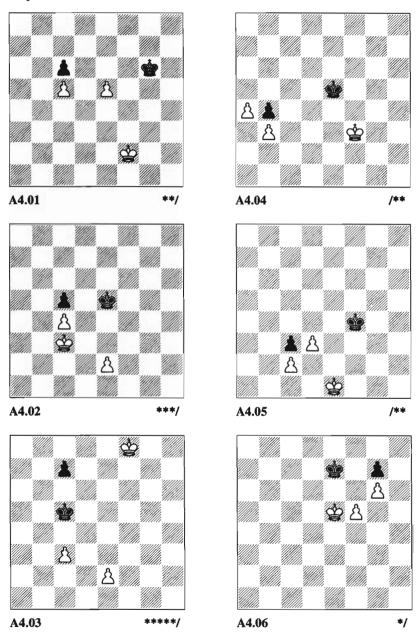
1 \$\ddots 1 \dots 2 \dots 1 \dots 2 \dots 1 \dots 2 \dots 1 \dots 2 \d

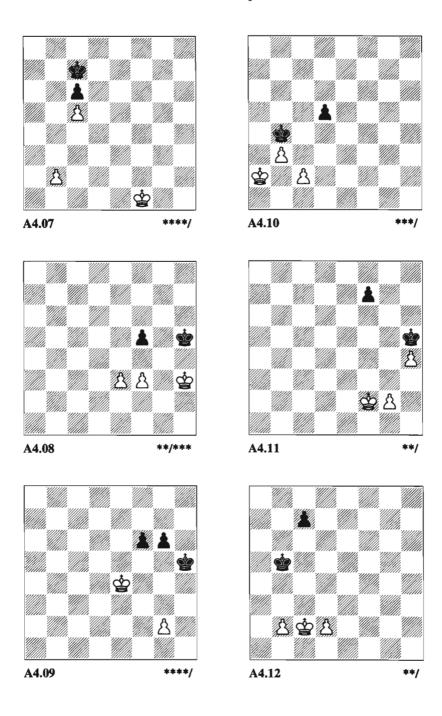
1...h6 2 g5! hxg5 3 \$\prec\$xg5! +--.
2 \$\prec\$h6 \$\prec\$h8 3 g5 \$\prec\$g8 4 g6 \$\prec\$h8 5 g7+

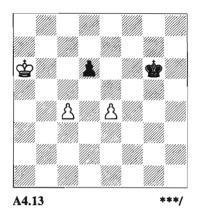
5 gxh7?? stalemate.
5...\$g8 6 g4! +-

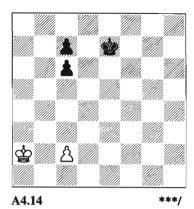
If Black is to move, though, he draws with a surprising counter-attack: 1...\$\psi 7!\$
2 \$\psi h5 \$\psi e6!!\$ (2...\$\psi 6? 3 \$\psi h6! +-) 3\$
\$\psi h6 \$\psi f6!\$ 4 g5+ \$\psi f5!\$ 5 \$\psi h5 \$\psi e4!\$ 6\$
\$\psi g4 \$\psi e5 7 g6!?\$ hxg6! 8 \$\psi g5 \$\psi e4!\$ =.

Chapter 4 Exercises









Solutions to Chapter 4 Exercises

A4.01 After **J.Berger**, 1922

Black might be able to prevent the white king from advancing to the 5th rank but White just sacrifices his e-pawn in order to advance to the key squares of the c6-pawn:

1 \$e3! \$f5 2 \$d4! \$g6 3 e6

3 **\$**e4 **\$**g5 4 e6 +−.

3...\$f6 4 e7! \$f7 5 \$e4!

5 e8\dagger +? \dagger xe8! 6 \dagger e4 \dagger f8! =; 5 \dagger e5? \dagger xe7! = (2.01).

5...\$e86\$f5\$xe77\$e5!+-(2.01)

A4.02 F.Dedrle, Deutsches Wochenschach, 1921

White only wins by going round from the left. If you have discovered the corresponding squares b3-d4 the exercise wasn't that difficult any more:

1 \$b2!!

1 e3? \$\psi 4 2 \psi d2 \psi e5 3 \psi e1 \psi 4 4\$
\$\psi e2 \psi f5! (4...\$\psi e5? 5 \psi f3! \psi f5 6 e4+!\$
\$\psi e5 7 \psi e3! +- (4.02)) 5 \psi f3 \psi e5! 6 e4\$
\$\psi d4! 7 \psi f4 \psi xc4! 8 e5 \psi b3! 9 e6 c4! 10\$
e7 c3! 11 e8\$\psi c2! = (3.08); 1 \psi d3? \psi f5\$
(1...\$\psi f4 2 e4 \psi g5! = (4.02)) 2 \psi e3 (2 e4+ \psi f4 =) 2...\$\psi e5! 3 \psi d3 \psi f5 4 \psi c2 \psi e4! 5 \psi b3 \psi d4! =.

1...\$e4 2 \$a3! \$d4 3 \$b3! \$e3 4 \$a4! \$d4 5 \$b5! +-

A4.03 M.Zinar, 1981

This exercise is extremely difficult because at first the white king has to take a very circuitous route. The position with w\$f7 and b\$d5 surprisingly is one of reciprocal zugzwang:

1 🕏 g7!!

1 e4? \$\precede{4}! = ; 1 e3? \$\precede{4}\$d5 = ; 1 \$\precede{4}\$e7? \$\precede{4}\$e4! 2 \$\precede{4}\$e6 (2 e4 \$\precede{4}\$xc3! 3 e5 c5 4 \$\precede{4}\$d6 c4! 5 e6 \$\precede{4}\$b2 6 e7 c3! 7 e8\$\precede{\precede{4}}\$c2! = (3.08)) 2...\$\precede{4}\$xc3! 3 \$\precede{4}\$5 \$\precede{4}\$b4! 4 e4 (4 \$\precede{4}\$c6 \$\precede{4}\$c4!

=) 4...c5! =; 1 学f7? 学d5! 2 学f6 学c4! 3 e4 学xc3 4 e5 c5! 5 e6 c4 6 e7 学d2!! 7 e8豐 c3! =; also have a look at 3.10.

1...\$d5 2 \$f7! \$e5

2...2c4 3 e4! 2c3 4 e5! c5 5 e6! 2d2 6 e7! c4 7 e82e8 2d8 2d8+! (the decisive difference from the line with 1 2ef7? is the fact that now the white king is not in the way of his queen) 8...2c1 9 2e9 g5+! 2e1 10 2e6 c2 12 2ed5! 2ed2 13 2e2 2ed1 14 2e4++-.

3 \$e7 \$d5 4 \$d7! \$c4 5 \$c6!

5 e4? \$\preceq\$xc3! 6 e5 c5! 7 e6 \$\preceq\$d2 8 e7 c4! 9 e8\$\preceq\$c3! = (3.09).

5...\$xc3 6 \$c5! +-

A4.04 After **Van Nyevelt**, Superiorité, 1792

Black can only manoeuvre within the square of the a-pawn. Nevertheless he manages to defend the key squares c4, d4 and e4-e7 (they are all within the square) if he always takes the most simple form of opposition:

1...\$d5! 2 \$f4 \$d4! 3 \$g5 \$e5!

3...\$c5? 4 \$g4! +-; Black has no access to the c4-square.

4 \$h6 \$d6! 5 \$h7 \$d7! 6 \$g8 \$e8

6...\$\pmedex 6\$ (the e8-square is not a key square because Black can keep the opposition on the sixth rank) 7 \$\pmedex 78 \$\pmedex 66! 8\$\$ \$\pmedex 68! 9 \$\pmedex 68! 10 \$\pmedex 8 \$\pmedex 66! 11\$\$ \$\pmedex 8 \$\pmedex 66! 12\$\$ \$\pmedex 8 \$\pmedex 66! 12\$\$ \$\pmedex 8 \$\pmedex 66! 13\$\$ \$\pmedex 8 \$

7 알g7 알e7! 8 알g6 알e6! 9 알h5 알d5! 10 알h4 알d4! 11 알h3 알d5!

Virtual opposition.

12 \$g3 \$e5! 13 \$f2 \$d4

13...\$e4 14 \$g2 \$d4! 15 \$h2 \$e4!

=; 13...\$2e6 = see 12.04.

14 \$g2 \$e4! 15 \$h2 \$d4! =

Also sacrificing the a-pawn doesn't help since Black is able to defend the key squares of White's b-pawn. The system of corresponding squares in this position will be explained in Chapter 12. 15... \$\displaystyle{2}\$ d5? 16

\$\psi_1\$ \$\psi_4\$ 4 17 \$\psi_4\$! \$\psi_4\$ 18 \$\psi_5\$! \$\psi_4\$ 19 \$\psi_6\$ \$\psi_6\$ 20 \$\psi_6\$ \$\psi_6\$ 21 \$\psi_6\$ \$\psi_6\$ 22 \$\psi_5\$! \$\psi_4\$ 4 23 \$\psi_6\$ \$\psi_6\$ 5 24 \$\psi_6\$ \$\psi_6\$ 5 \$\psi_6\$ 4 1-0 was the finish in E.Schmittdiel-N.Heck, Bad Zwesten 1997.

A4.05 N.Grigoriev, Izvestia, 1921

Have you discovered the corresponding squares and how Black adheres to them exactly?

- 1...\$f3!
- 1...\$\psi_63? 2\$\psi_61!\$\psi_f3 (2...\$\psi_44 3\$\psi_62!\$+-) 3\$\psi_61!\$\psi_63 4\$\psi_61!\$\psi_64 5\$\psi_82!\$\psi_65 6\$\psi_63\$\psi_64 7\$\psi_64 +-.
 - 2 **₽**d1
- 2 cdots f1 cdots e3! 3 cdots e1 cdots f3! = blocks the way to the key squares e2 and f2.
- 2...\$e3! 3 \$c1 \$d4! 4 \$b1 \$c5! 5 \$a2 \$b4!

Now White can't occupy the key square b3.

6 \$\pmu_a1!? \$\pmu_b5! 7 \$\pmu_b1 \$\pmu_c5! 8 \$\pmu_c1\$ \$\pmu_d4! 9 \$\pmu_d1 \$\pmu_e3! 10 \$\pmu_e1 \$\pmu_f3! 11 \$\pmu_f1\$ \$\pmu_e3! =

For a detailed explanation see 12.01.

If the starting position is moved one file to the right, White wins because then he can use the a-file to penetrate with his king. But if one moves it to the left it becomes easier for Black because then White can't break through on the queenside at all. It follows that in this case also 1... dd3 draws and not only 1... de3.

A4.06 G.Walker, 1892

This position is an exception to the rules in 4.08 and 4.09 due to the additional very dangerous breakthrough f5-f6. White wins, whoever is to move:

1 **\$**d5

- 1 f6+? doesn't work immediately:
- a) 1...gxf6+? 2 \Psif5! \Psie8 3 \Psie6! \Psif8 (3...f5 4 g7 +-) 4 \Psixf6! +-.
 - b) 1...\$\poper f8! 2 f7 = (6.01E).
 - 1...\$f6 2 \$e4! \$e7 3 \$e5! \$f8
 - 3...\$d7 4 f6! \$e8 5 fxg7! +-.

4 **\$**d6 **\$**e8

4...**\$**g8 5 **\$**e7 +--.

5 \$\psie6 \$\psif8 6 \$\psid7! \$\psig8 7 \$\psie7 \$\psih8 8\$ f6 gxf6 9 \$\psif7 +-

A4.07 N.Grigoriev, Shakhmatny listok, 1931

White has two spare tempi. Nevertheless he has to be careful since there is not much space to penetrate on the queenside:

1 \$\preceq\$e2! \$\preceq\$d7 2 \$\preceq\$d3! \$\preceq\$e7

Or 2...\geqeee6, and now:

- a) Not 3 \$\preceq\$e4? \$\preceq\$f6! 4 b3 (4 \$\preceq\$d4\$ \$\preceq\$f5! 5 \$\preceq\$c4 \$\preceq\$e6! 6 \$\preceq\$b4 \$\preceq\$d5! 7 b3 \$\preceq\$d4! =) 4...\$\preceq\$e6! 5 b4 \$\preceq\$f6! 6 \$\preceq\$d4 \$\preceq\$e6! 7 \$\preceq\$c4 \$\preceq\$d7! = (4.08).
 - b) 3 \$\dipcap c4! \$\dip d7 4 \$\dip b4 +-.

3 \psic3! \psie6 4 \psic4!

And as in 4.11.

4...\$d7

4...\$\displays 65 5 b4! \$\displays 66 6 b5! +--.

5 \$\psib4 \$\psic7 6 \$\psia5 \$\psib7 7 b3! \$\psia7 8 \$\psib4! \$\psib7 7 b7 \$\psi 2 b 4 \$\psi 2 b 5 \$\ps

8...\$\perpare a6 9 \$\perpare c3 \$\perpare b5 10 b4! \$\perpare a6 11 \$\perpare c4! \$\perpare b7 12 \$\perpare d4! +-.\$

9 \$\psic4 \$\psic7 10 \$\psid4! \$\psid7 11 \$\psie5!\$\$ \$\psic7 12 b4! +- (4.09)\$

A4.08 Maizelis (after Dedrle), 1954

If White is to move, he wins as in 4.10 by marching his king to the queenside: 1 \$\pm\$3 \$\pm\$5 2 \$\pm\$6 (2...\$\pm\$h4 3 \$\pm\$e2 \$\pm\$3 4 f4! \$\pm\$g2 5 e4 +-) 3 \$\pm\$e2! \$\pm\$e5 4 \$\pm\$d3! \$\pm\$d5 5 f4! +- (4.08).

If Black is to move, he can just hold the position by an elegant king manoeuvre. This prevents White from making any progress on the kingside, and in case of an attack on the queenside he comes just in time with some counterplay with his f-pawn: 1...\$\psi_5! 2 \psi_2 (2 \psi_3?! f4+! =) 2...\$\psi_6! 3 \psi_3 \psi_f?! 4\$\psi_2 \psi_6 6 5 \psi_2 \psi_6! 6 \psi_3 \psi_5! 7 \psi_c3\$ (7 e4 \psi_6! 8 exf5 \psi_6! 9 f6 \psi_xf6! 10 \psi_64 \psi_6! =) 7...\$\psi_6! 8 \psi_6! f4! 9 e4+

\$\psi d4! 10 \$\psi b3 \$\psi e3! 11 e5 \$\psi xf3! 12 e6 \$\psi g2 13 e7 f3! 14 e8\$\psi f2! = (3.08).

A4.09 N.Grigoriev, La Stratégie, 1936

In this example only a counter-attack against the black pawns helps. One has to be very precise due to the many positions with reciprocal zugzwang:

1 **\$**d5!

1 \$\psi f4? \$\psi h4 2 \$\psi f3 g5 3 \$\psi f2 \$\psi g4 4\$ \$\psi f1 \$\psi g3 5 \$\psi g1 f5 -+.

1...\$g4 2 \$e6! f5

2...\$\psig5 3 g3! (3 \psif7? \psif5! 4 \psig7 g5! 5 \psif7 g4 6 g3 \psie4 \rightarrow) 3...f5 4 \psif7! \psih5 5 \psif6! \psih6 6 \psie6! =.

3 \$f6! g5 4 \$e5! f4 5 \$f6! \$h4 6 \$f5! \$h5 7 \$e5! \$g6 8 \$e4! \$f6 9 g3! with a draw.

A4.10 N.Grigoriev, 64, 1933

If you have looked at 4.12 carefully it certainly wasn't a problem to find the unusual key move:

1 \$\dal!!

1 \$\psi_2? d4! 2 \$\psi_c1 \$\psi_c3! 3 \$\psi_d1 d3! 4 \cxd3 \$\psi_xd3! =.

1...**⊈**c3

1...d4 2 \$\pmub2! +--.

2 \$b1! \$b4

2...d4 3 \(\psi c1! +-.

3 **\$c1!**

3 **\$**b2? d4! =.

3...\$\pmeqc3 4 \$\pmeqd1! d4 5 \$\pmeqc1! d3 6 cxd3! \$\pmeqxd3 7 \$\pmeqb2! \$\pmeqd4 8 \$\pmeqa3! \$\pmeqc5 9 \$\pmeqa4! \$\pmeqb6 10 \$\pmeqb4! +=

A4.11 A.Herberg, 1936

White is only successful with an elegant king manoeuvre:

1 🕸 g3!

1 g3? \$\dot{g}4! 2 \$\dot{g}2 f5 =.

1...f5

1...f6 2 \$\dispha\$h3! f5 3 \$\dispg3 +--.

2 \place*f3!!

2 \psif4? \psixh4! 3 \psixf5 \psig3! =; 2 \psih3? f4! =.

2...\$xh4 3 \$f4! +-

If the position is moved one file to the left, then not only does 1 \$\Delta f3\$ win, but also 1 f3 \$\Delta f4 2 \Delta f1\$ e5 3 \$\Delta f2!\$ e4 4 fxe4! +-.

A4.12 Von der Lasa, 1843

If White is to move, he wins by using his pawn moves in a clever way and finally, according to 4.14, engages in an encirclement.

1 \$\psi b3!

1 b3? 2b4 2 d4 2a5 3 2c3 2b5! 4 b4 c6 = (see also 4.13).

Not 1 **\$**c3? **\$**c5!:

a) 2 b3 \(\delta b5! \) 3 d4 (3 b4 c5! =) 3...c6 drawing.

b) 2 b4+ \$\displaystyle b5! 3 \$\displaystyle b3 c6! =.

1...**⊈**c5

1...c6 2 d4 +-; 1...c5 2 \(\frac{1}{2} \) c3 c4 3 b3 and wins.

2 c3! c6

2...\$\d5 3 b4! +-; 2...\$\d5 3 d4! +-.

3 b4+ \$\precepb5 4 \$\precepb3! \$\precepa6\$

 $4...c5 5 bxc5! $\preceq xc5 6 $\preceq c3! +-.$

5 \$c4! \$b6 6 d3! \$c7 7 \$c5! \$d7

7...**№**b7 8 b5 cxb5 9 **№**xb5! and White wins.

8 \$\ddots \ddots \ddots

If Black is to move, then he can easily draw due to his active king after 1...\$b4 or 1...\$c4.

A4.13 A.Herberg, 1935

Though White can't go round Black (see 4.14) he can push him so far back that finally a breakthrough becomes possible:

1 **\$**a7!

1...**⊈**g7

1...\$f7 2 \$b7! +-; 1...\$g5 2 \$b7 +-.

2 \$\preceq\$a8!! \$\preceq\$g8 3 e5! dxe5 4 c5! and wins.

White queens with check.

■ In 1929, Mandler placed the kings at h5 and a7 (1 \clubsuit g6! +-).

A4.14 N.Grigoriev, 1936

Since 4.16 was won whoever is to move, White immediately has to get his king to c4:

1 \$\pm\$b3! \$\pm\$d6 2 \$\pm\$c4!

2 \$c3? \$c5 -+ (4.16).

2 **\$**b4?:

- a) 2...c5+?! 3 \$\psic4 \$\psic6! 4 c3 (4 \$\psid d3 \$\psic5! 5 \$\psic3 c4 -+) 4...\$\psid d6 5 \$\psid d3 \$\psid d5! -+.
 - b) 2...\$d5 3 \$c3 \$c5 -+.
 - 2...c5 3 \$\d3! \$\d5
 - 3...\$c6 4 c4! \$b6 5 \$c2 \$a5 6 \$b3!
- =; 3...\$e5 4 \$c4! \$d6 5 \$d3! =.

4 c3! c4+ 5 \$\preceq\$e3! \$\preceq\$c5 6 \$\preceq\$e4! c6 7 \$\preceq\$e3! \$\preceq\$b6!?

7...\$d5 8 \$f4 \$c5 9 \$e3! =.

8 \$\psi d2! \$\psi b5 9 \$\psi c2 \$\psi a5 10 \$\psi b1 =

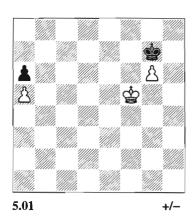
Not, of course, 10 \$\precep\$b2? because of 10...\$\precep\$a4! 11 \$\precep\$a2 \$\precep\$b5! -+.

5 Unique Features of the Rook's Pawn

We already know from the first two chapters that the chances for defence increase considerably with the existence of rook's pawns. To sharpen the eye of the reader again we have summarized the special features of the rook's pawn in this chapter. In particular, the win of the rook's pawn doesn't necessarily lead to a win, which leads to Bähr's Rule, which is explained in 5.04. Further, the reader is encouraged to study 5.08-5.10 carefully.

A) Blocked Pair of Pawns and a Passed Pawn

We start the same way we did in Chapter 4.



If the blocked rook's pawns are in the defender's half of the board, the sacrifice of the passed pawn in order to deflect the opponent's king usually leads to an easy

win since the white king can immediately occupy the key square b7 after he has taken the pawn. First, however, White has to win an important tempo:

1 🕸 g 5!

1 \$\preceq\$6? \$\preceq\$xg6! 2 \$\preceq\$d6 \$\preceq\$f6 3 \$\preceq\$c6 \$\preceq\$64 \$\preceq\$b6 \$\preceq\$d6 5 \$\preceq\$xa6 \$\preceq\$c6 =.

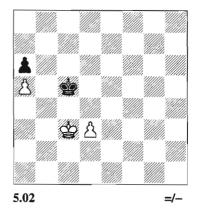
1...\$g8 2 \$f6 \$f8 3 \$e6

3 g7+? **\$**g8! =.

3...\$g7 4 \$d6 \$xg6 5 \$c6 \$f6 6 \$b6 \$e6 7 \$xa6! \$d7 8 \$b7! +-

Since the tempo-gain would fail due to stalemate, 5.01 moved one rank up the board would only be a draw.

If the passed pawn is not far advanced, one has to look out for a counter-attack like in Chapter 4:



If White is to play, he cannot win: 1 d4+ \$\psi 5!\$ 2 \$\psi 63\$ \$\psi xa5!\$ 3 \$\psi c4\$ \$\psi 6!\$ 4 \$\psi 65\$ \$\psi c7\$ 5 \$\psi 66\$ \$\psi d8\$ 6 \$\psi d6\$ a5! forcing a draw.

If it is Black to move, the edge of the board will be fatal for him:

1...**⇔**b5

1...\$d5 2 d4 \$d6 3 \$c4 \$c6 4 d5+\$d6 5 \$d4!\$d7 6 \$c5 \$c7 7 d6+\$d7 8 \$d5!\$\$d8 9 \$c6!\$\$c8 10 \$b6!\$\$d7 11 \$xa6!\$\$xd6 12 \$b7 +-.

2 \$d4! \$b4

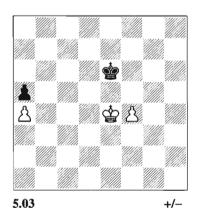
Black resists...

3 \$d5! \$xa5 4 \$c5!

...but is finally blocked. The white dpawn is too fast:

4...\$a4 5 d4!\$b3 6 d5! a5 7 d6! a4 8 d7! a3 9 d8数! a2 10 数d4 +-

If the blocked pawns are on the middle ranks, White needs one more move to reach the key square b7 or, to put it the other way around, Black has one more tempo to reach the saving square c8. So everything depends on how far the passed pawn is already advanced.



Here the pawn is just far enough back to enable White to win:

1 **☆**d4

After 1 f5+? Black only needs three moves after taking the f-pawn to get to the c8-square: 1...\$\phi62\$\phi64\$\phi73\$\phi65\$\phi61.5\$\phic55\$\phi851.6\$\phib5\$\phi66! 7 \phixa5\$\phi67! 8 \phib6 \phi68! =.

1...\$f5 2 \$c5 \$xf4 3 \$b5 \$e5 4 \$xa5! \$d6 5 \$b6! \$d7 6 \$b7! +-

The different pawn formations that are based on this principle made the theorist Bähr in 1936 define a rule that is named after him. It predicts the outcome of these positions, and we will now take a closer look at it:

A1) Bähr's Rule

Of course one could also evaluate the outcome by pure counting. Whoever prefers this can go straight on to the diagram. For our formulation of the rule one always has to evaluate the point of intersection between the diagonal of the pawn to the 8th (1st) rank and the c-file (if there is no point of intersection then it will be the c8-square; in example 5.03 therefore it is the c7-square).

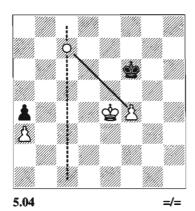
Bähr's Rule (from the defender's viewpoint) states: the position is a draw if the distance between the defender's king and the passed pawn is smaller than the distance between the defender's pawn and the evaluated point of intersection. Otherwise the position is lost if no successful counter-attack (like in 5.02) is possible. Distance of course means the amount of moves that a king needs to make the journey.

For reasons of clarity we again summarize the requirements:

- 1) The rule is applicable with blocked a-pawns and passed pawns from d- to h-file.
- 2) The kings must have conquered the maximum space (look at the win of tempo in 5.01).
- The attacking king mustn't be able to occupy the key squares of his passed pawn.

After so much theory now back to the practice (see next diagram):

The black king is two squares away from the f-pawn; on the other hand the

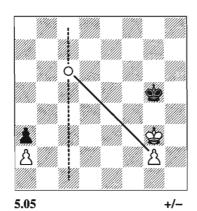


point of intersection is three squares away from a4. Therefore the position is a draw:

1 \(\pm d4 \pm f5! \) 2 \(\pm c4 \pm xf4! \) 3 \(\pm b4 \pm e5 \)

4 \(\pm xa4 \pm d6 \) 5 \(\pm b5 \pm c7 = \)

The following position also illustrates the rule:



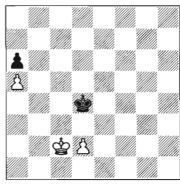
Here the point of intersection is c6, and the distances are therefore equal (3 and 3). White wins as follows:

1 \psi f3! \psi f5

1... ♦ h4 2 ♦ f4! and White queens the g-pawn.

2 \$e3 \$g4 3 \$d3 \$g3 4 \$c3 \$xg2 5 \$b3 \$f3 6 \$xa3! \$e4 7 \$b4 \$d5 8 \$\ddots \ddots \

But there are a few exceptions to the rule, when the passed pawn is not too far advanced. Here one has to calculate precisely whether the counterattack is successful:



5.06 +/=

If White is to move, he wins (also with the king on e2), though the evaluation (3-2) predicts a draw:

1 d3!

1 \$\psi_3? \$\psi_43! (1...\$\psi_5? 2 \$\psi_63! \$\psi_5 3\$) \$\psi_44! \$\psi_85 4 \$\psi_65! \$\psi_84 5 d4! \$\psi_5 6 d5!\$ +-- (5.02)) 2 \$\psi_54 \$\psi_64! 3 d3 \$\psi_8xd3! 4\$ \$\psi_65 \$\psi_64! = (2.10).

1...\$d5 2 \$d2!

2 \$\preceq\$c3? \$\preceq\$c5! 3 d4+ \$\precep\$b5! is a draw (5.02).

2...\$d4 3 \$e2! \$c5 4 \$e3! \$d5

4...\$b5 5 \$\psi d4! \$\psi b4 6 \$\psi d5! \$\psi xa5 7\$\$\$\$\psi c5! +- (5.02).

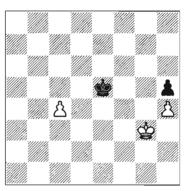
5 d4! \$c6 6 \$e4! \$d6 7 d5 \$d7 8 \$e5 \$e7 9 d6+ \$d8 10 \$d5 \$d7 11 \$c5 \$d8 12 \$b6 +-

If Black is to move, he draws with 1...\$c4!, so the position must be an exception in any case since the rule doesn't depend on the right to move.

Further exceptions are:

- 1) w\$\d2,\text{\Delta}a5,e2; b\$\d4,\text{\Delta}a6 is with White to move a draw and not won, as the evaluation (2-2) would predict;
- 2) w\$e3,∆a6,d2; b\$e5,∆a7 is won, whoever is to move:
- 3) 5.02 with White to move is a draw and not won.

Of course there are also exceptions when the kings are still further away from the pawns, e.g.



5.06A +/=
P.Motwani – J.Shaw
Scottish Ch 1993

1...\perpeceeeeeeee

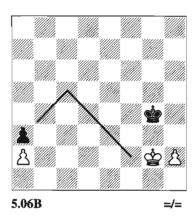
We have a reciprocal zugzwang with White to move. 5.06A with a pawn at c3 instead of c4 would therefore be won for White after 1...\$\delta c4! +-.

In endgame literature **Bähr's Rule** is often formulated in the following way (from the viewpoint of the attacker):

Requirement: the attacking king is next to his passed pawn, and the defending king is in front of the pawn.

- When the blocked rook's pawn has passed the middle of the board, the attacker will win.
- If it is still in his half of the board, one has to draw the diagonal of the defender's pawn to the c-file and, from

the point of intersection of the c-file, the 'border diagonal' to the first rank of the attacker. If the passed pawn is below or on the 'border diagonal' the position is won; otherwise it is a draw.



The diagonals go from a3 to c5 and from c5 to f2. The passed pawn on h2 is above the border diagonal, therefore the position is drawn. One can also apply the rule if the attacking king has conquered more space but is not placed on a key square. Thus with the kings at g3 and g5 one has to look at the diagonals a4-c6-g2 and with kings at g4 and g6 at the diagonals a5-c7-h2. Of course also for this formulation there exist the corresponding exceptions (see, for example the list following Av 219).

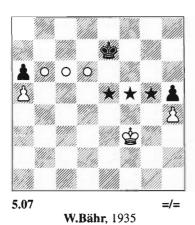
We now want to have a look what consequences our considerations have for the fight for the critical squares (see following diagram):

1 de3!?

Though this forces the capture of one of the two pawns, it is Black who decides which one and therefore he can draw.

1...\&f7!

Black has to keep the h5-pawn; otherwise he would lose, due to Bähr's Rule.



Thus he only fights for the squares e5, f5 and g5.

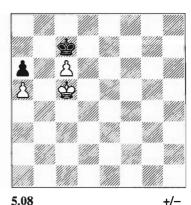
2 \$\psi d4 \$\psi f6! 3 \$\psi d5!? \$\psi f5! 4 \$\psi c6 \$\psi e6\$
4...\$\psi g4? 5 \$\psi b6 +--.

5 \$\, b6 \$\, d6 6 \$\, xa6 \$\, c6 7 \$\, a7 \$\, c7! \\
8 a6 \$\, c8! 9 \$\, b6 \$\, b8! 10 \$\, c6 \$\, ca7! 11 \\
\$\, d6 \$\, xa6! 12 \$\, c6 \$\, cb 13 \$\, c6 \$\, c6 14 \\
\$\, g6 \$\, cd 6 15 \$\, xh5 \$\, ce7! 16 \$\, ce 6 \$\, ce 6 \, ce 6 \

■ There are a great many studies concerning this issue (see for example ECE 243-68). For instance: w\(\delta\)e1, \(\delta\)b4, h4; b\$e8,∆b5,h5 (Capablanca, 1921, ECE 254); whoever is to move wins, e.g. 1 \$\preceq\$e2! \$\preceq\$f8 2 \$\preceq\$d3! \$\preceq\$e7 3 \$\preceq\$e3! +-. Furthermore, one must be aware that although it is generally best for the attacker to have the pawn far-advanced, there is a danger of the king being blocked in at the edge of the board. In 1936 Bähr demonstrated this in an extraordinary way: w\$d1,∆a2,h3; b\$d5, ∆a3,h4 (ECE 264). White has to defend the key squares of the h3-pawn and block the black king in the corner after ... \(\preceq\) xa2, thus 1 \(\preceq\)e1!! =.

A2) Bishop's Pawn and Rook's Pawn vs Rook's Pawn

Like in Chapter 4, we also face some problems here because of the proximity of the blocked pawns:



H.Fahrni - S.Alapin, 1917

If Black were to move, he would be in zugzwang and would have to allow the white king to b6. However, it is White to move and it seems as if he is in zugzwang. This is not true though, because behind him he has more space available than Black, who always has to answer \$\d2000dcdot\d200

1 호d5! 호c8 2 호d4 호d8 3 호c4 호c8 4 호d5! 호c7

4...\$\\delta 8 5 \delta d6! \$\delta c8 6 c7! \$\delta b7 7 \delta d7!\$\$\delta a7 8 \delta c6 +- (8 c8\delta?? stalemate; 8 c8\delta, δ or (2++-); the subject of underpromotion will be covered in Chapter 6).

5 **\$**c5!

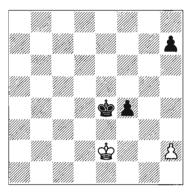
This produces the starting position with Black to move.

5...\$c8 6 \$b6! 1-0

Due to 6...\$\psib8 7 \psixa6! \psic7 8 \psib5!

An exercise for the indefatigable: try to figure out whether the c-pawn fits into our formulation of Bähr's Rule.

If the rook's pawn of the defender is still on its starting square then the winning method we have just seen isn't practicable. But if the attacker's rook's pawn has also not been moved, then he still wins without difficulty. As, for example, Aron Nimzowitsch (in section 4.7 of My System) explains brilliantly in his own way, the f-pawn can just be advanced and then be queened:



5.09 -/+ U.Garbisu - J.M.Gomez Esteban Pamplona 1993/4

1 \$f2 f3! 2 \$f1

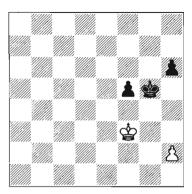
2...\&e3! 0-1

The black h-pawn still has the double step so that he can always react accordingly: 3 \$\pie1\$ f2+ 4 \$\pif1\$ f3! 5 h3 (5 h4 h6 6 h5 \$\pie3\$ -+) 5...h5 6 h4 \$\pie3\$ -+.

Play is a lot more complicated if the rook's pawn has already moved (see diagram 5.10):

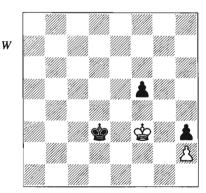
White can draw in a study-like way because he manages to prevent Black from getting the opposition at f4.

In the game, he erred by 1 \$\preceq\$3? h5! 2 \$\precep\$f3 h4! 3 \$\precep\$g2 \$\precep\$g4! 4 \$\precep\$f2 \$\precep\$f4! 5 \$\precep\$e2! 6 \$\precep\$f2 \$\precep\$g4! 7 \$\precep\$f3 h3!! and White



5.10 =/=
R.Vaganian - J.Sunye Neto
Rio de Janeiro IZ 1979

resigned. The reader should try to memorize the position after 7...h3!! (D), for only it can explain the nuances of the main variation (see 12.05-12.08 for a detailed discussion of the corresponding squares).



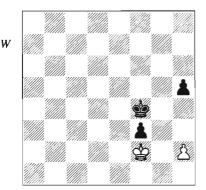
a) 8 \$\psi f2 \$\psi d2! 9 \$\psi f3 (9 \$\psi f1 \$\psi e3! 10 \$\psi e1 f4 11 \$\psi f1 \$\psi f3! -++) 9...\$\psi e1! 10 \$\psi e3 (10 \$\psi g3 \$\psi e2 11 \$\psi xh3 f4 -++) 10...\$\psi f1! 11 \$\psi f3 \$\psi g1! 12 \$\psi g3 f4 +! 13 \$\psi f3 \$\psi h1 -+.\$

b) 8 \$\psi f4 \psi e2! 9 \$\psi xf5 \$\psi f3! -+ (A2.03).

This winning manoeuvre was first shown by Maizelis.

Instead, White could have secured a draw as follows:

- 1 \$\preceq\$e2!! \$\preceq\$g4 2 \$\preceq\$e3!
- 2 \$\psi_12? \$\psi_14 3 \$\psi_22 \$\psi_24 4 \$\psi_12 \hsi_15! 5\$ \$\psi_22 \hsi_14! 6 \$\psi_12 \$\psi_243! 7 \$\psi_13 \hsi_12! -+.
 - 2...h5
 - 2...\$\dot\dot3 3 \dot\dot{64!} =.
- 2...f4+ 3 \$\psi\$f2 h5 4 \$\psi\$e2 \$\psi\$f5 5 \$\psi\$f3 \$\psi\$e5 6 \$\psi\$f2 \$\psi\$e4 7 \$\psi\$e2! f3+ 8 \$\psi\$f2 \$\psi\$f4 (D).



When the h-pawn is at h6, h5 or h4 White draws by moving his king to a square with the same colour as the h-pawn (if it is still at h7 he will lose in any case and versus the pawn at h3 he always draws). 9 \pmodestrip 1! \pmodestrip 2 10 \pmodestrip 2! f2+11 \pmodestrip f1!

3 \$f2! \$f4 4 \$e2! \$e4 5 \$f2! h4

5...\$\psi d3 6 \psi f3! h4 7 h3 \psi d2 8 \psi f4 \$\psi e2 9 \psi xf5 \psi f3 10 \psi e5! = (2.10).

6 \$e2! f4 7 \$f2! f3

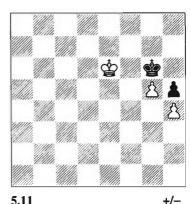
The h-pawn is on a dark square, so: 8 ★e1

Or $8 \oplus g1$, but not $8 \oplus f1? \oplus e3! -+$. 8... $\oplus e3 9 \oplus f1! f2 10 h3! =$

B) Protected Passed Pawn

Here one has to watch out for a stalemate (see next diagram).

If White is to move, he can't directly make any progress, thus he once again



5.11 N.Grigoriev, 1930

has to give Black the move. How can one lose that tempo? Of course, a triangulation offers itself:

1 \$d6

1 \$\delta 6 \$\delta 67 2 \$\delta 6 \delta g7 3 g6? \$\delta 6! =. This doesn't lead to a win because of the edge of the board (stalemate).

1...**⊈**f7

1...\$g7 2 \$e7 \$g6 3 \$f8 +-.

2 \$e5 \$g7

2...\$g63\$e6 (now we have the starting position with Black to move) 3...\$g74\$f5+-.

3 \$f5 \$f7

3...\$h7 4 \$f6 \$g8 5 \$g6 +-.

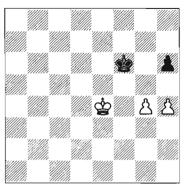
4 g6+ \$\preceq\$g7 5 \$\preceq\$g5! +--

If one moves 5.11 one rank up the board, this winning manoeuvre doesn't work any longer and the position is drawn (see in Chapter 6 about fortresses).

C) Others

We now consider cases where there are no passed pawns (see next diagram).

If Black is to move, he draws with 1...\$e6!, while White can get to the key squares of the h6-pawn by means of an encirclement:



5.12 +/=

1 \$\psi d5! \$\psi e7 2 \$\psi e5! \$\psi f7 3 \$\psi f5!

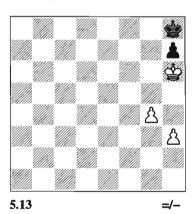
3 \$\delta d6?! still wins, but represents a loss of time: 3...\$\delta f6 4 \$\delta d5!\$\delta f7 5 \$\delta e5!\$\$\delta e7 6 h5 +--.\$\$

3...\$g7 4 \$e6! \$g6

4...h5 5 g5! +- (5.11).

5 h5+ \$g5 6 \$f7! \$xg4 7 \$g6! and wins.

With rooks' pawns, even an active king is no guarantee of a win:



Here everything depends on who is to move. If it is White to play, then he cannot win:

1 h4

1 \$\psi_95 \$\psi_97 2 \text{ h4 \$\psi_f7 (2...h6+? 3 \$\psi_55!)}\$
\$\psi_f7 4 \text{ h5!} +-) 3 \text{ h5 \$\psi_97 4 \text{ h6+} =; the black king can't be forced out of the corner (see Chapter 6). 1 \$\psi_9\$h5!? \$\psi_98\$ (1...\$\psi_97 2 \$\psi_95 \$\psi_98! 3 \$\psi_f6 \$\psi_f8! 4 \text{ h4}\$\$
\$\psi_98! 5 \$\psi_66 \$\psi_97 6 \text{ h5 \$\psi_98 7 \$\psi_f6 \$\psi_f8! 8}\$
\$g5 \$\psi_98 9 g6 \text{ hxg6} =) 2 \$\psi_95 \$\psi_97! =.

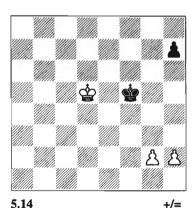
1...\$\preceq 8 2 h5 \$\preceq h8! 3 g5 \$\preceq g8 4 g6 hxg6

4... \$\dot\dot 8 5 \$\dot\dot g5\$ hxg6 also leads to a draw.

5 hxg6 \$\precent{\pre

If Black is to move, he loses: 1...\$\pi g8 2 h4 \$\pi h8 3 g5 \$\pi g8 4 h5! \$\pi h8 5 g6 hxg6 (5...\$\pi g8 6 g7! \$\pi f7 7 \$\pi xh7! +--) 6 hxg6! \$\pi g8 7 g7! +--.

If the pawns are still further back it becomes a lot more complicated:



F.Dedrle La Stratégie, 1936

This study is exactly on the borderline between a win and a draw. With White to

move, the activity of the black king is not sufficient to avoid a loss:

1 **☆**d6!

1 \$\psid4? \$\psif4! 2 \$\psid3 h5 3 \$\psie2 h4 4\$
\$\psif2 \$\psie4! =; 1 h3? \$\psif4! 2 \$\psie6 \$\psig3! 3\$
\$\psif6 \$\psixg2! 4 h4 \$\psif3! (4...\$\psig3? 5 h5!)\$
\$\psif4 6 h6! +-) 5 h5 \$\psie4! 6 h6 \$\psid5! 7\$
\$\psig7 \$\psie6! =.

1...h6

1...\$\perp{6} 2 \perp d7 \perp f7 3 h3! \$\perp f8 4 \perp e6!\$\$\perp e8 5 \perp f6 \perp f8 6 \perp g5 \perp g7 7 h4 +- (see 5.13).

1...h5 and now:

- a) 2\$e7? h4! 3 h3\$e5! (a funny situation because the white king is hindered by the opposition to get back to his own pawns) 4\$f7\$f5! 5\$g7\$g5! 6\$h7\$h5! 7\$h8!?\$h6! =. It was important that the black king had access to all necessary squares.
- b) 2 \$\ddot d5 h4 3 h3! \$\ddot f4 4 \$\ddot e6!\$ and wins.

2 h3

2 \$e7 h5 3 \$f7 h4 4 h3! \$g5 5 \$g7 \$f4 6 \$f6 \$g3 7 \$g5 +-.

After 2 \$\Delta 65\$? we nearly have the starting position again. Only the h7-pawn is now at h6, but this doesn't change anything with 2...h5! (2...\$\Delta 64\$? doesn't work: 3 \$\Delta 66\$ \$\Delta 63\$ 4 \$\Delta 65\$ \$\Delta 62\$ 5 h4 \$\Delta xg2\$ 6 h5 +-), due to 3 \$\Delta 44\$ \$\Delta 64\$ 4 \$\Delta 63\$ h4 5 \$\Delta 64\$ h3! 6 g3+ \$\Delta 63\$! 7 \$\Delta 63\$ \$\Delta 92\$! =.

2...\&f6!?

2...\$f4 3 \$e6! \$g3 4 \$f5! \$xg2 5 h4! \$g3 6 h5! +-.

3 **\$d7!**

3 g3? \$\psif5! 4 \$\psid5!? \$\psif6! 5 \$\psie4 \$\psie6! 6 g4 \$\psif6! 7 \$\psif4 \$\psig6 8 h4 \$\psif6! is a draw (5.12).

3...\$f7 4 g3 \$f6

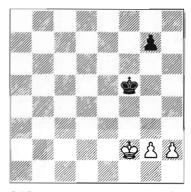
4...h5 5 h4 \$\psi\$f6 6 \$\psi\$d6! \$\psi\$f5 7 \$\psi\$e7! \$\psi\$g4 8 \$\psi\$f6! \$\psi\$xg3 9 \$\psi\$g5! +-.

5 \&e8!

 $5 \ \disploid 6? \ \disploif 6! = .$

5...\$f5 6 \$f7 \$e4 7 \$g6 \$f3 8 g4 \$g3 9 \$xh6! +- ■ The extra pawn also counts when the h-pawn is already far advanced, as long as the attacking king is sufficiently active, e.g. Milošević-Diz Suares, Hamburg 1995: w\$g4,\(\Delta\)h5; b\$e5,\(\Delta\)g7,h7: 1\$g5 h6+! 2\$g6\$f4! 0-1. 1 h6!? would also have lost: 1...g6! 2\$g5\$e6! 3\$f4\$d5 4\$g4\$e4! 5\$g5\$e5! 6\$g4\$f6! 7\$f4\$g5+!-+.

If the candidate is a rook's pawn, there might also be some problems, as the following example by von der Lasa shows. At his time it was heavily discussed in the literature. In 1925, Nikolai Grigoriev showed that if Black is to move, he manages to draw.



5.15 +/= von der Lasa, 1843; Grigoriev, 1925

If White is to move, he wins quite easily:

1 \$g3 \$g5 2 \$f3 \$f5

2...\$\psi 4 3 \$\psi 64 \$\psi 5 4 \$\psi 6 5 g4\$
\$\psi 6 \$\psi 5 \$\psi 8 7 \$\psi 6 \$\psi 8 8 h4 \$\psi 8 9\$
\$\psi 67 \$\psi 67 \$\psi 6 \$\p

3 h4 g6 4 \$\dispsi g3 g5 5 h5 g4 6 h6 \$\dispsi g6 7 \$\dispsi xg4 +-

If Black is to move, he can place his king in such an active way that the win becomes impossible:

1...\$f4! 2 \$e2 \$e4!

2...g5?3\$d3!g44\$d4!g35h3!+-.
3 g3\$f5!

3...g5? 4 h3! \$\psi f5 5 \$\psi d3! \$\psi e5 6 \$\psi e3! \$\psi f5 7 \$\psi d4! \$\psi f6 8 g4 \$\psi e6 9 \$\psi e4! +-.

4 **\$**f3 **\$**g5!

4...g5? 5 \$\preceq\$e3 \$\preceq\$g4 6 \$\preceq\$e4! \$\preceq\$h3 7 \$\preceq\$f5! \$\preceq\$xh2 8 g4! +-.

5 h3 \$f5! 6 \$e3 \$e5! 7 \$d3 \$d5!

7...g6? 8 \$\preceq\$e2! \$\preceq\$e4 9 h4 \$\preceq\$e5 10 \$\precep\$e3! (10 \$\precep\$f3? \$\precep\$f5! =) 10...g5 11 h5! g4 12 h6! \$\precep\$f6 13 \$\precep\$f4! +--.

8 h4 \$e5! 9 \$e3 \$f5! 10 \$f3 g6! 11 g4+ \$f6! 12 \$f4

12 \$\pmeq 4\$ \$\pmeq 6!\$ 13 g5 \$\pmeq 6!\$ =; 12 \$\pmeq f2\$ \$\pmeq f7!\$ (12...\$\pmeq 6?\$ 13 \$\pmeq e2!\$ \$\pmeq f6\$ 14 \$\pmeq d3!\$ (see 1.12) 14...\$\pmeq 7\$ 15 \$\pmeq 63!\$ \$\pmeq f6\$ 16 \$\pmeq d4!\$ \$\pmeq 6\$ 17 \$\pmeq e4!\$ +-) 13 \$\pmeq 63\$ \$\pmeq 67!\$ =. Black has to defend the key squares d5 and e5 according to the rules of the (distant) opposition.

12...g5+! =

D) Doubled Pawns

With doubled rook's pawns, the prospects for a draw are very high. That is because the winning method of exchanging the front pawn and winning with the back pawn here doesn't exist.

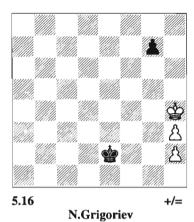
In the following diagram, one can only win because the defending king doesn't get to his pawn.

1 **છ**g3‼

1 \$\precep\$5? \$\precep\$f3 2 \$\precep\$g6 \$\precep\$g2 3 h4 \$\precep\$h3! (3...\$\precep\$f3? 4 \$\precep\$f5! \$\precep\$g2 5 h5! \$\precep\$h3 6 \$\precep\$g5! +--) 4 h5 \$\precep\$g4! 5 h3+ \$\precep\$h4! = is reciprocal zugzwang with White to move.

1...**⊈**e3

1...g6 2 h4 \(e^3 \) 3 \(e^3 \) 4 +-.



1...\$\dot\delta f1 2 h4! g6 and now White can play:

64, 1932

a) 3 \$\disp\text{f4} \disp\text{g2} 4 h5! gxh5 5 h4! and wins.

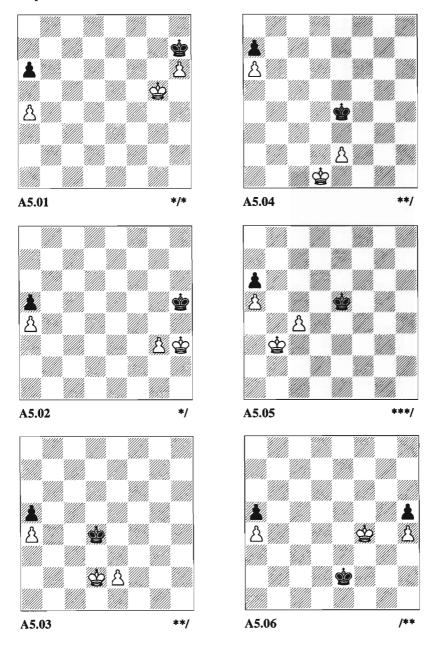
This manoeuvre only leads to a win with rook's pawns. If one moved the position one file to the left, Black would be able to defend himself (and more) by 5...\$\precepg3! 6 \$\precept 5 \preceph 4! -+.\$ Therefore we have made the other method, which also works with doubled pawns on other files, our main variation. According to Averbakh, Grigoriev himself mistakenly believed that the combination 3 \$\precept 64\$ and 4 h5! was the only way to win and thus concluded that the study with the doubled pawns on other files was only a draw.

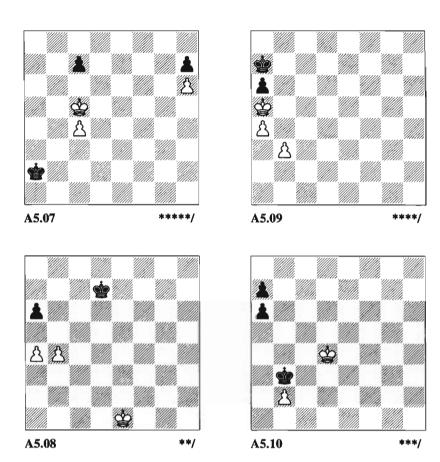
b) 3 h3 \dig 1 (3...\dig 2 4 \dig 4 \dig 1 5 h5 gxh5+ 6 \dig xh5! \dig g3 7 h4! +-) 4 h5 gxh5 5 h4 +-.

2 h4! \$\pmeq\$e4 3 \$\pmeq\$g4! \$\pmeq\$e5 4 \$\pmeq\$g5! \$\pmeq\$e4 5 h5! \$\pmeq\$f3 6 \$\pmeq\$f5! +-

Now the black king can't keep within two moves of the h5-pawn.

Chapter 5 Exercises





Solutions to Chapter 5 Exercises

A5.01 H.Fahrni, 1917

White has to make sure that his pawn passes the middle line; then he will win as in 5.01:

1 a5!

1 \$\pm\$h5? a5! =.

1...\$\pmu_g8 2 \pmu_f6 \pmu_h7 3 \pmu_e6 \pmu_xh6 4 \$\pmu_d6 \pmu_g6 5 \pmu_c6 \pmu_f7 6 \pmu_b6 \pmu_e7 7 \$\pmu_xa6! \pmu_d7 8 \pmu_b7! +-

If Black is to move, he draws by 1...a5!.

A5.02 Instructive example

Hopefully you were cautious enough not to advance the pawn.

1 **⋭**g2

1 g4+? \$\pmeq\$5 2 \$\pmeq\$g5 3 \$\pmeq\$63 \$\pmeq\$f4 \$\pmeq\$f6! 4 \$\pmeq\$e5! 5 \$\pmeq\$d5! 6 \$\pmeq\$c5 \$\pmeq\$f5! 7 \$\pmeq\$b5 \$\pmeq\$e6! 8 \$\pmeq\$xa5 \$\pmeq\$d7! 9 \$\pmeq\$b6 \$\pmeq\$c8! =.

1...\$\pm\$g4 2 \$\pm\$12 \$\pm\$g5 3 \$\pm\$e3 \$\pm\$g4 4 \$\pm\$d4 \$\pm\$xg3 5 \$\pm\$c5 \$\pm\$f4 6 \$\pm\$b5 \$\pm\$e5 7 \$\pm\$xa5! \$\pm\$d6 8 \$\pm\$b6! \$\pm\$d7 9 \$\pm\$b7! +--

A5.03 W.Bähr, 1935

White wins as in 5.02 by blocking the black king, and forcing a winning queen vs queen position that is familiar from Chapter 3:

1 e3+ \$c4 2 \$c2 \$b4 3 \$d3! \$xa4 4 \$c4! \$a3 5 e4! \$b2 6 e5!

6 \$b5? \$b3! 7 \$xa5 \$c4! =.

6...a47e6! a38e7! a29e8豐! a1豐 10 豐e2+! 含c1 11 豐e1+! 含b2 12 豐d2+! 含b1

12...\$a3 13 ₩b4+! +-.

13 **\$**b3! +−

A5.04 J.Crum, 1913

This position is another exception to Bähr's Rule. White wins although the black king is only two moves away from the e2-pawn and the distance between a7

and c4 is 3. White manages to prevent his a-pawn from being captured by threatening to queen his e-pawn:

1 **\$e1!**

1 \$\text{\$\psi}\$d2? \$\text{\$\psi}\$d4! with a draw according to B\text{ahr's Rule (3-2). The draw is again based on a counter-attack: 2 e3+ \$\text{\$\psi}\$c4 3 \$\text{\$\psi}\$e2 \$\text{\$\psi}\$b5! =.

1...\$\psi_63 2 \psi f1! \$\psi d4 3 \psi f2! \$\psi c5 4 e4! \$\psi 65 6 \psi e3 \psi d5 7 \psi f4! \$\psi e6 8 \$\psi e4! +--

A5.05 M.Dvoretsky – A.Nikitin, Moscow 1974

White proceeds as in 4.04 and finally reminds himself of the triangulation:

l \$∕a4

 $1 \text{ c5? } \text{ \triangle} \text{d5 } 2 \text{ \triangle} \text{b4 } \text{ \triangle} \text{e6! } 3 \text{ \triangle} \text{c4 } \text{ \triangle} \text{e5!} = (4.04).$

1...\$e4 2 \$a3 \$e5

2...\$d4 3 \$b4! +-.

3 \$\pmu\$b3! \$\pmu\$d6 4 \$\pmu\$c2! \$\pmu\$c6

4...\\$e5 5 \\$d3! +-.

5 \$\psi d3 \$\psi c5 6 \$\psi c3! \$\psi d6 7 \$\psi d4! \$\psi c6 8 \$\c5! \$\psi c7\$

8...**\$**b5 9 **\$**d5! +−.

9 \$\d5! \$\d7 10 c6+! +- (5.08)

A5.06 Based on E.Colle – E.Grünfeld, Karlsbad 1929

In the game the black king was at f1 and Grünfeld resigned. But with the king at e2 the position is a draw:

1...\$\psi d3! 2 \psi g5 \psi e4! 3 \psi xh5 \psi f5! 4 \psi h6 \psi f6! 5 h5 \psi f7! 6 \psi g5 \psi g7! =

The distance between the black king and the pawn is 2, while the distance between c8 and a5 is 3. Therefore the position is a draw according to Bähr's Rule.

A5.07 F.Prokop, Sach, 1943

White is able to exploit the bad position of the black king:

1 **\$\delta** b4!!

1 \$\preceq\$c6? \$\preceq\$b3 2 \$\preceq\$xc7 \$\preceq\$xc4 =; 1 \$\preceq\$d4? \$\preceq\$b3! =.

1...**⊈**b2

1...c62c5!+-.

2 c5! \$c2 3 \$c4! c6

3...**\$**d2 4 c6 +−.

4 **\$d4!**

4 \$\psib4?? \$\psid3! -+.

4...\$b3 5 \$e5! \$c4 6 \$f6! \$d5!?

It seems as if now White can't win since he is to move, but by means of a triangulation he can use his surplus of corresponding squares to give Black the move. Note that here the order of moves is strict (in contrast to 5.08) because the white king has to keep a distance of 2 moves from the h7-pawn due to Black's counterplay.

6...\$\document{\psi}xc5 7 \document{\psi}g7! +-.

7 \$f7!!

 $7 ext{ } ext{$\%$} ext$

7...\$\dot\delta 8 \delta e7! \delta d5 9 \delta f6! \delta xc5 10 \delta g7! +-

A dozen exclamation marks in 10 moves underline the particular beauty and difficulty of this study.

A5.08 W.Bähr, 1936

At first White has to get the distant opposition, and then transform it, with the help of the familiar procedures, into a near opposition in order to penetrate with the king:

1 \$\d1! \$\c7 2 \$\e2!

2 &c2? &c8 = (distant opposition).

2...\$\psi 6 3 \$\psi d2\) \$\psi 6 4 \$\psi c3\] \$\psi d7 5 \$\psi d3\] \$\psi 6 \$\psi c4\] \$\psi d6 7 \$\psi d4\] \$\psi c6 8 \$\psi c5\] \$\psi d7

8...\$c7 9 \$d5! \$d7 10 a5 +-.

9 \$\psi d5! \$\psi c7 10 \$\psi c5! \$\psi b7 11 \$\psi d6!\$ \$\psi b6 12 \$\psi d7 \$\psi b7 13 a5 +-

For a detailed discussion of the corresponding squares see A12.03.

A5.09 After Réti and Mandler (1929) and Grigoriev (1930)

In this exercise again the method of exclusion proves to be good, after one has worked through A5.08 and doesn't want to go into a discussion of corresponding squares (see A12.04).

1 \$b4! \$b6 2 \$c3!

2 \$%\$ \$c4?\$ \$%\$ \$a5! 3 \$%\$ \$c3\$ \$%\$ \$b6\$ 4 \$%\$ \$d4\$ \$%\$ \$c6!5 \$%\$ \$c4\$ \$a5\$ = (4.08A).

2....\$a5

2...\$c5 3 b4+! +- (A5.08); 2...\$c6 3 \$d4! (3 b4? \$c7! =) 3...a5 4 \$c4! +- (4.08A); 2...\$c7 3 b4! +-.

3 \$c4! \$b6 4 \$d5! \$a5 5 \$c6! \$b4 6 \$b6 a5

6...\$\document{\psi}xb3 7 a5! +-.

7 **\$\prima6 \$\primax\$ kb3 8 \$\primax\$ a5 \$\primes c4 9 \$\primes b6!** and wins.

If Black is to move, he keeps the corresponding squares by 1...\$b7! 2 \$b4 \$c6! 3 \$c3 \$b6! and thus draws.

■ In 1929, Réti and Mandler (Av 744) created the position w�f2,△g3,h4; b�h7, △h6 (1 g4 +-; 1...�g7! =) and in 1930 Grigoriev (Av 745) created w�h4, △g3,h3; b�h7,△h6: 1 �h5! +-; 1...�g7!

A5.10 N.Grigoriev, 64, 1932

White has to stay with the front apawn and must avoid falling into zugzwang:

1 \$d5!!

1 \$c5? a5! 2 \$c6 (2 \$b5 a4! 3 \$a5 a6! -+) 2...\$c4! -+ (5.16).

1...**∲**b4

1...\$\psixb2 2 \psic4! \psia3 3 \psic3! =; 1...a5 2 \psic5! a4 3 \psib5! a6+ 4 \psia5! =.

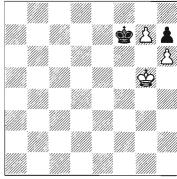
2 \$\preceq\$c6! a5 3 \$\precep\$b7! a4 4 \$\precep\$a6! \$\precep\$c4 5 \$\precep\$a5! \$\precep\$b3 6 \$\precep\$b5! a6+ 7 \$\precep\$a5! and White draws (5.16).

6 Fortresses, Stalemates and Underpromotion

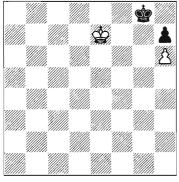
A) Simple Fortresses

At the edge of the board and especially in the corner there are often positions in which neither a material superiority (extra pawn), nor a positional advantage (active king) can be transformed into a win. If the defence doesn't demand a great deal of precision we characterize such positions as fortresses. The knowledge of such fortresses in complicated endgames can help to find the right defence or it can be the guide for accurate play in a winning position.

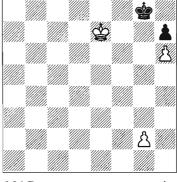
Therefore the reader should commit the following eight fortresses to memory:



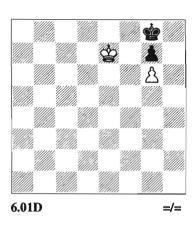
6.01B =/=

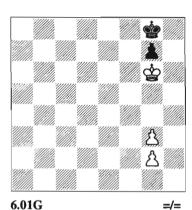


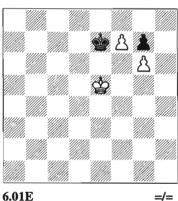


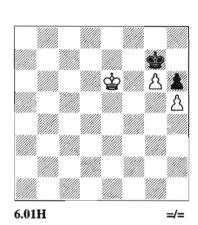


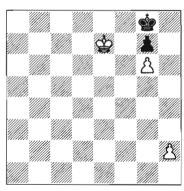
6.01C =/=











=/=

A: 1 \$\displayse\$e\displayse \$\displayse\$h8 2 \$\displayse\$f7 stalemate
Nothing changes if the blocked pawns
build the base or the top of a pawn-chain,
e.g. b∆g6,f5 and w∆g5,f4.

B: 1 \$65 \$98! 2 \$66 stalemate. The sacrifice of the g-pawn would only lead to Fortress A.

C: Here again there are no more tricks for White:

1 g4 \$\psi h8 2 g5 \$\psi g8 3 \$\psi f6 \$\psi h8 4 g6 \$\psi g8 =

4...hxg6 is also sufficient to draw.

6.01F

D: 1 \$\displays e8 \$\displays h8 2 \$\displays f7\$ stalemate

As in 6.01A, the blocked pawns here could also be part of a pawn-chain.

E: As in 6.01B the white king can't attack the g-pawn from the right:

1 \pmd5

1 f8 # + \$xf8! 2 \$d6 \$e8 3 \$e6 \$f8! = (6.01D).

1....\$\psi f8! 2 \$\psi e6\$ stalemate

F: Black shouldn't be afraid of the advance of the h-pawn:

1 h3 \$\psi h8 2 h4 \$\psi g8 3 h5 \$\psi h8 4 h6 \$\psi g8!

4...gxh6?? 5 **\$**f7 +~.

5 \$\docume{e}\)e6 gxh6! =

G: If Black stays in the corner, he has nothing to be afraid of:

1 g4 \$\dot{\$\dot{\$h8!}}

1...\$f8? 2 \$h7! \$f7 3 g5! \$f8 4 g6

2 \$67 \$h7! 3 g5 \$h8! 4 g6 stalemate

H: 1 \$\psie 7 \$\psig8 2 \$\psi f6 \$\psi h8 3 g7 + \$\psi g8\$

3...**⊈**h7 =.

4 **\$g6** stalemate

As we know from Chapters 4 and 5, Black loses if one moves 6.01H down or to the left.

B) Direct Applications

We now want to examine two positions in which the fortresses above determine the further play (see next diagram):

Here it doesn't matter who is to move:

1 \$\psi d5 \$\psi f7 2 \$\psi d6 \$\psi e8 3 \$\psi e6

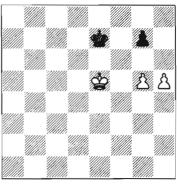
3 \$e5 \$f7 4 \$f5 g6+! =.

3...\$f8! 4 \$d7

4 \$f5 \$f7! =.

4...\$f7!

4... ★g8? (until White has played g6, it's not sufficient just to stay in the corner)

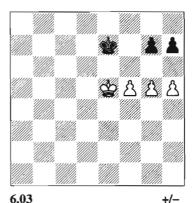


6.02 =/=

5 \$\dip e7 \$\dip h8 6 \$\dip f7 \$\dip h7 7 \text{ h6 g6 8 }\dip f6 \text{ and wins.}

 $5 \text{ g6+ } \text{$\triangle $} \text{g8} = (6.01 \text{F}).$

Not, of course, 5...\$\precepf6?? 6 \precepe e8! +-.



G.Lolli, 1763

In this old position the win is not difficult if White doesn't allow a fortress.

1 g6

Only this pawn move wins: 1 f6+? gxf6+ (1... 2f7 2 fxg7 2xg7! 3 2e6 h6 4 g6 = (6.01H)) 2 gxf6+ 2f7 3 2f5 2e8 = (12.06); 1 h6? gxh6! 2 gxh6 2f7! = (12.05).

1...hxg6

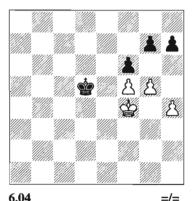
1...h6 2 \$\ddot d5 (2 f6+? gxf6+ = (6.01H))
2...\$\delta f8 (2...\$\ddot d7 3 f6 \$\delta e8 4 fxg7! +-;
2...\$\delta f6 3 \$\delta d6 \$\delta xf5 4 \$\delta e7 \$\delta g5 5 \$\delta f7 +-) and now:

- a) 3 \$\precedexet{2}e6 \$\precedexet{2}e8 4 \$\precedexet{2}d6 (4 \$f6? \$\precedexet{2}f8! = (6.01E or 6.01H)) 4...\$\precedexet{2}f8 (4...\$\precedexet{2}d8 5 \$f6 +-) 5 \$\precedexet{2}d7! +-.
- b) 3 \$\pside 6 \$\psie 8 4 \$\psie 6 \$\psi f8 5 \$\psi d7!\$\$\$ \$\psi g8 6 \$\psi e 7 \$\psi h8 7 f6 +-.\$
 - 2 hxg6! \$\precent{9}\$f8 3 \$\precent{9}\$d6
 - $3 \text{ f6? } \text{$^{\circ}$g8! = (6.01E).}$
- 3...\$\psi 8 4 \psi 66 \psi f8 5 \psi d7! \psi g8 6 \psi e7 \psi h8 7 f6 gxf6 8 \psi f7 +-

The reader can verify that White also wins with Black to move.

C) Stalemates

With the fortresses it was sufficient to remain passive because the stalemate situations came automatically with the opponent's attempts to win. We now want to look at a few examples in which the defender must actively build his own stalemate cage.



6.04 Chigorin - S.Tarrasch Ostend 1905

The black king has already advanced to the critical squares of the f5-pawn,

which usually would be enough for a win. However, the proximity to the edge of the board allows a possible stalemate:

1 \$g4!?

However, Chigorin missed it, losing after 1 gxf6? gxf6! 2 \$\pig4\$ \$\pie5\$ 3 \$\pih3\$ i3 (3 \$\pih5\$ \$\pixf5! 4 \$\pih6\$ \$\pig4!? 5 \$\pixh7\$ \$\pih5! \\ -+) 3...\$\pif4\$ -+ 0-1.

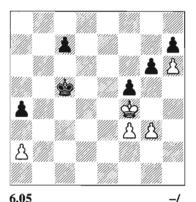
1 g6? h5! -+; 1 h5? h6! -+.

1... \$e4 2 g6! h6

2...hxg6 3 fxg6! f5+4 g3 =.

3 \$h5!! \$xf5 stalemate.

A counterattack again forces a draw in the next position:



J.Piket – V.Korchnoi Nijmegen (8) 1993

1 \$\dot{e5!? a3?

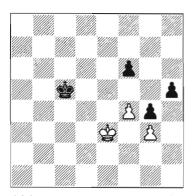
After this mistake, which gives a valuable tempo away, Piket finds an elegant solution to neutralize the dangerous c-pawn. 1...\$\precept{c4}!\$ would not have lost precious time: 2 g4 c5! 3 gxf5 (3 g5 \$\precept{d3}\$ 4 \$\precept{g6}\$ 6 c4! 5 \$\precept{g7}\$ c3! 6 \$\precept{gxh7}\$ c2! 7 \$\precept{gxg6}\$ c1\$\precept{\precept{g6}}! 8 h7 \$\precept{h1}\$ -+) 3...gxf5! 4 \$\precept{g6}\$ 6 \$\precept{gxh7}\$ \$\precept{g6}\$ 11 \$\precept{g8}\$ c1\$\precept{\precept{g}}" -+.

2 g4 f4

2...fxg4 3 fxg4! \$b4 4 \$f6! c5! 5 \$g7! c4! 6 \$xh7! c3! 7 \$xg6! c2! 8 h7! 3 \(\phi \) f6 \(\phi \) d6 \(\frac{1}{2} \)-\(\frac{1}{2} \)

Because of 4 \$\preceip g 7 \$\preceip e 7 5 \$\preceip xh 7 \$\preceip f 7!\$
6 \$\preceip h8 c5 7 h7 c4 8 g5 c3 stalemate.

Stalemates can also occur in the middle of the board:



6.06 =/4
Idea from N.Grigoriev, 1934

How should White prepare against the threat of ...f5? If he plays f5 himself the black king is already on its critical squares.

1 f5!

Surprisingly, this works nevertheless. Not 1 \$\preceq\$e4? \$\precep\$b4 2 \$\precep\$d3 (2 f5 \$\precep\$c4 3 \$\precep\$f4 \$\precep\$d5 4 \$\precep\$e3 \$\precep\$e5! -+) 2...f5 3 \$\precep\$d4 4 \$\precep\$e3 (4 \$\precep\$c4?! h4 -+) 4...\$\precep\$a3 5 \$\precep\$e2 \$\precep\$b4 6 \$\precep\$d2 \$\precep\$c4 7 \$\precep\$e2 \$\precep\$d4 8 \$\precep\$d2 \$\precep\$e4 9 \$\precep\$e2 h4 -+.

1...**\$**d5

1...\$c4 2 \$\pmeq\$e4! \$\pmeq\$c3 3 \$\pmeq\$e3! \$\pmeq\$b3 4 \$\pmeq\$d3! \$\pmeq\$a2 5 \$\pmeq\$e2! =.

2 \place f4!

The stalemate cage now saves the game, while all other attempts to win fail, if White takes the side or the diagonal opposition in time. In doing so, he mustn't quit the square of the g4-pawn because of the threat ...h5-h4.

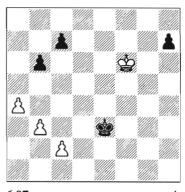
2...\$\d6

2...

d4?! stalemate.

3 쌓e4! 쌓c6 4 쌓d4! 쌓b6 5 쌓e4! 쌓b5 6 쌓d3! 썋a5 7 쌓e3! = (virtual opposition).

A more detailed discussion of the corresponding squares can be found in A12.04. There it will also become clearer why the following moves lose: 7 \$\pi_2\$? \$\pi_4\$ 4 -+; 7 \$\pi_2\$ 3? h4 -+; 7 \$\pi_2\$ 4? \$\pi_4\$ 4! =) 8 \$\pi_2\$ 3.19 \$\pi_2\$ 2 \$\pi_4\$ 4 10 \$\pi_4\$ 2 \$\pi_4\$ 4 11 \$\pi_2\$ 3 \$\pi_2\$ 3! 12 \$\pi_1\$ 4 \$\pi_4\$ 2 13 \$\pi_2\$ 4 \$\pi_2\$ 2 -+.



6.07 +/ N.Grigoriev (after Mattison), 1934

Since the study from which we took the idea in 6.06 is so beautiful and deep, we don't want to hide it from our readers. Even though in the beginning the black outside passed h-pawn is still on the board, this soon proves to be of no importance. The main focus is to get the opposition in order to break the possible stalemate defence.

1 b4! \$\dd 2 \dd e6!!

2 \$\preceq\$g5? c5! 3 b5 \$\preceq\$d5! 4 \$\preceq\$h6 c4! $(4...\preceq$c4? 5 c3! \preceqd5 6 \preceqxh7! c4 7 \preceqg7 +--) 5 c3 \preceqd6 6 \preceqxh7 \preceqd7! = (6.06). Black has the distant opposition and draws.$

2...h6

2...\$\psic 4 3 c3! c5 4 b5! h6 (4...h5 5 \$\psic 5! +-) 5 \$\psic 5! h5 6 \$\psic 5! \psic 5 7 \$\psic 5! +-\) 5 \$\psic 5! h5 6 \$\psic 5! \psic 5 7 \$\psic 5! +-\) Now White has the distant opposition (6.06). Other attempts fail as well: 2...c5?! 3 a5 +-; 2...c6 3 c3+! (3 a5? bxa5! 4 bxa5! \$\psic 5! 5 c4! h5 6 \$\psic 5 h4! 7 \$\psic 6! \psic 4 b4 6 8 \$\psic 6! \psic 5 c4! h5 6 \$\psic 5 h4! 7 \$\psic 6! \psic 6 6 8 \$\psic 6! \psic 5 c4! h5 6 \$\psic 5 5 b4! \psic 5 \psic 5 5 b5! h6 6 \$\psic 6! \psic 5 \psic 5 5 b5! h6 6 \$\psic 6! \psic 5! +-\; 2...h5 3 c3+ \$\psic 6! (3...\psic 6! 4 a5! +-) 4 \$\psic 5! +-\\$.

3 c3+! \psic4 4 \psic5! h5

4...c6 5 \$\preceq\$e4! h5 6 \$\preceq\$f5 c5 7 b5! h4 8 \$\preceq\$g4! \$\preceq\$d5 9 \$\preceq\$xh4! c4 10 \$\preceq\$h5! \to (6.06).

5 \$f5 \$d5 6 \$g5! c6 7 \$h4!!

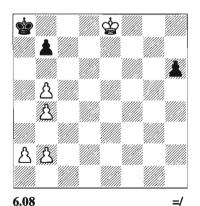
 $7 \implies xh5? c5! 8 b5 c4! = (6.06).$

7...c5 8 b5! c4 9 \$\precext{\$\precext{\$\text{\$\precext{\$}}}\$} xh5!

White wins the opposition, and thus the position.

9...\$\psi 6 10 \$\psi h 6! \$\psi d 7 11 \$\psi 5 \$\psi 6 12 \$\psi 6 6! \$\psi 5 13 \$\psi 6 7 \$\psi d 6 14 \$\psi 6 8 \$\psi c 5 15 \$\psi d 7 \$\psi d 5 16 a 5 +-\$

For the practical man the following position may seem to be unimportant but the only pawn ending study by Genrikh Kasparian should not be missing here:



G.Kasparian Shakhmaty v SSSR, 1937

The strange pawn-structure enables White to set up an original stalemate cage:

1 \$\d7!

Threatening to get into the square of the h-pawn. Not 1 \$\dds\$? \$\dds\$b8! -+.

1...h5! 2 \precent c7! h4!

2...\$\pma7? 3 b6+ \$\pma6 4 b5+ \$\pma5 5\$ \$\pmxb7 h4 6 \$\pma7 +--.\$

3 \$\psi b6! h3

3...\$\ddot\delta 8 4 \ddot\delta 5! \delta 6 + 5 \ddot\delta 4! \delta 3 \delta 2 7 \delta 3! \delta 1 \ddot\delta stalemate.

4 \$a5! h2

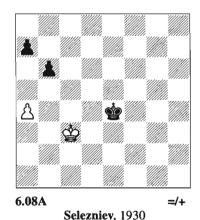
4...b6+ 5 \$\dot{a}4! h2 6 a3 h1 \$\dot{9}7 b3! \$\dot{9}b7\$ stalemate.

5 b6! h1\ 6 b5!

Even though White still has to make two pawn moves, Black can't prevent White from stalemating himself. Without a doubt this study is a masterpiece.

6... \wat a1 7 a4! \we1+ 8 b4 =

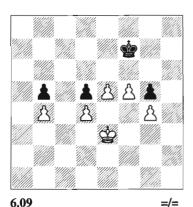
■ ECE contains many further studies that end with the creation of a stalemate cage (for example, 417, 1345, 1358, 1453). Selezniev created one that needed a lot less material than the study by Kasparian:



1 a5! b5 2 a6! \$\text{\$\psi\$}\$d5 3 \$\psi\$b4! \$\psi\$c6 4 \$\psi\$a5! \$\psi\$c5 stalemate.

D) Blockade

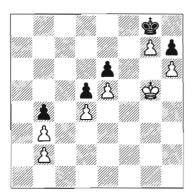
Now we deal with a very different kind of fortress:



Due to the total blockade, the white king can't lend any support to his passed pawns:

 $1 e6 + \preceq f6 2 \preceq f3 \preceq e7 =$

Also in the following position at first sight there seems no penetration possible.



6.10 +/- **P.Morphy – A.Anderssen** (variation) *Paris* (11) 1858

However, the stalemate trick that completes the blockade can be easily cracked by a triangulation:

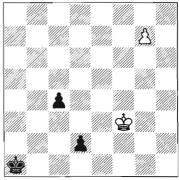
1 **⋭**g4

1 \(\precent{\precen

1...\$f7 2 \$h5 \$g8 3 \$g5! \$f7 4 g8\$#+ \$xg8 5 \$f6! +-

E) Underpromotion

At the end of this chapter let's have a look at three studies in which only underpromotion of the pawn leads to a win because queening would lead to a stalemate. Of course such cases are very rare in practice, but you never know. In the first example, only the rook wins:



6.11 + G.Nadareishvili, 1963

1 \$\delta e2! c3 2 g8\darkfi!

2 g8豐? d1豐+! (2...d1罩? 3 豐b3! 罩d2+ 4 堂e1 罩d3 5 豐a4+ 堂b2 6 豐b5+! 堂c2 7 豐f5! +-) 3 堂xd1! c2+! 4 堂d2 c1豐+! 5 堂xc1 stalemate.

2...\$b2 3 **\(\mathbb{Z}\)g1!**

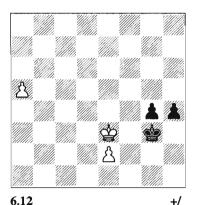
3 \(\mathbb{Z}\)c8? \(\mathbb{C}\)c2! 4 \(\mathbb{Z}\)d8 \(\mathbb{C}\)c1 =.

3...\$c24 \(\begin{align*} 1 \\ \phi \begin{align*} \phi \begin{align*} 2 \\ \phi \begin{align*} 2 \\ \phi \begin{align*} 1 \\ \phi \begin{align*} 2 \\ \phi \begin{align*}

6...d1 + 7 xd1! c2 8 d2! +-. 7 b1+! 22 8 c2! +-

■ By the way, the simplest example of a forced underpromotion is w\$a5,\(\Delta c7;\) b\$a7: 1 c8\(\Delta! +-\).

In the following only a bishop does it:

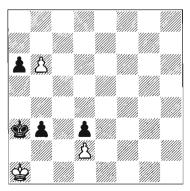


P.Joitsa, 1955

1 a6! h3 2 a7! h2 3 a8单! +Not 3 a8豐? h1豐! 4 豐b8+ \$h3 5
豐h8+ \$p3! 6 豐xh1 stalemate.

■ If one puts the white a-pawn on h5, then only a promotion to a rook wins.

And finally only the knight:

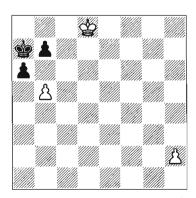


6.13 +/ J.Kling and B.Horwitz, 1851 1...b2+ 2 \$b1 a5 3 b7 a4 4 b82! \$b3 5 ②a6 a3

5...\$\pmua3 6 \Qc5 \pmub4 7 \Qxd3+! \pmub3 8 \Qxb2! a3 9 \Qd1! a2+ 10 \pmua1! \pmuc2 11 d4! +-.

6 ②c5+! \$b47 ②e4! \$b38 ②c3! +-

Of course there are a lot more studies that deal with underpromotion (e.g. ECE 288, 1195, 1309, 1375, 1395, 1413, 1416, 1434, 1439, 1440, 1485, 1550, 1552, 1555, 1576), while underpromotions hardly ever occur in practical games. In studies even a multiple underpromotion has been achieved. For example, in 1983 Zinar published the following study: w\$h2,∆b7,c7,d7,f3,g2,g5,h3; b\$h5, ∆h4, g6,c2. 1...c1 2 c8 2! b2 3 b8 2! bd4 $4 d8 \mathbf{Z}! + - (4 d8 \mathbf{\Omega}? \mathbf{W} d7! =)$. (Further examples: ECE 1536, 1592, 1602.) But underpromotion does not automatically avoid the draw. An unknown Czech composer refined an exercise, published by Joseph in 1922 in the British Chess Magazine, in the following way:



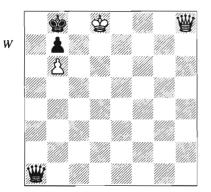
6.13A + After Joseph, British Chess
Magazine, 1922

1 b6+! 1 bxa6?? b5! -+. 1...**\$b8!?** 1...**\$**xb6 2 h4! +-.

2 h4! a5 3 h5! a4 4 h6! a3 5 h7! a2 6 h8\(\delta\)!

6 h8♠? a1∰ 7 ♠xa1! avoids the immediate stalemate, but leads to a familiar fortress.

6...a1₩ (D)



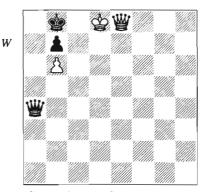
Now White is able to manoeuvre with his queen in such a cunning way that

Black's stalemate defence becomes impossible:

7 \#g8!

The only winning square. 7 \(\mathbb{\psi} f8? \)\(\mathbb{\psi} a3!\)
and 7 \(\mathbb{\psi} e8? \)\(\mathbb{\psi} g7!\) throw the win away.

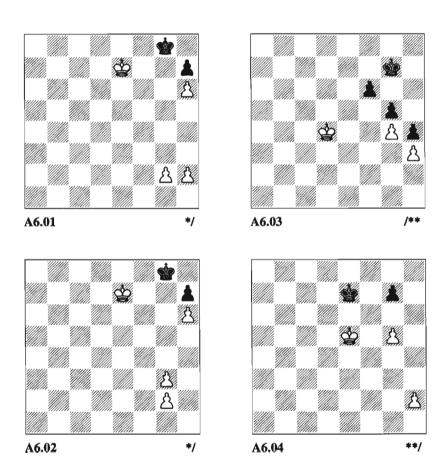
7...\daggera a 2 8 \daggera e 8! \daggera a 4 (D)

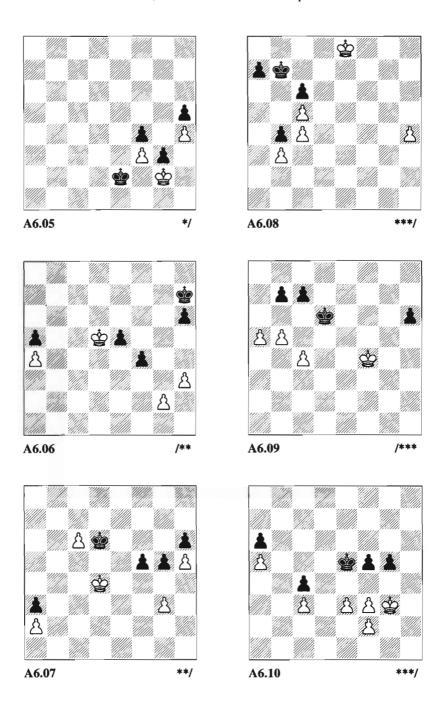


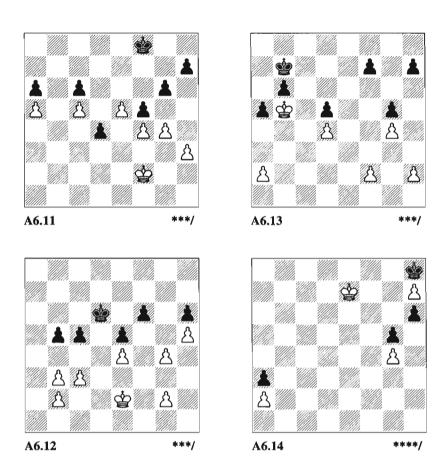
9 We5+! Aa8 10 Wh8! +-It is mate in two more moves.

Chapter 6 Exercises

Be careful: A6.10-13 contain some techniques from later chapters. If they are too difficult, you can try them again after you have studied Chapter 11.







Solutions to Chapter 6 Exercises

A6.01 After Hasek, 1928

You have certainly noticed that even two additional h-pawns wouldn't be of any help for White. If Black moves between g8 and h8 the position is a 'dead' draw:

1 h4 \$\psi h8 2 h5 \$\psi g8 3 g4 \$\psi h8 4 g5 \$\psi g8 5 g6 \$\psi h8! =

By the way, the final position is a very difficult one for the evaluation function of Fritz 4.

A6.02 Instructive example

Small difference, great consequences. White wins easily by sacrificing his front g-pawn:

1 g4 \$\psi h8 2 g5 \$\psi g8 3 g6 \$\psi h8 4 g4 \\ hxg6 5 \$\psi f6 \$\psi h7 6 g5 +-\]

A6.03 T.Luther – P.Wells, *Graz 1991*

Thomas Luther knew the fortress 6.01H, so he reacted calmly to Black's winning attempt:

1...f5!?

1...\$\Delta f7 2 \Delta e4 \Delta e6 3 \Delta d4 f5 4 gxf5+! \$\Delta xf5 5 \Delta e3! = (4.08).

2 gxf5! g4 3 de3 1/2-1/2

Because of 3...g3 4 \(\pm f3 \) with a draw (6.01H).

■ F.Sämisch-R.Spielmann, Teplice Šanov 1922 (ECE 1187), w\$d1,△a2,b3; b\$a5,△a3,b4,c5, features a similar idea: 1...c4!? 2 \$c2! c3 3 \$c1 ½-½ and the white king can't be forced away from the squares c1, c2 and d1.

A6.04 Instructive example

Compared to 6.02, here White still has spare tempi with his h-pawn, which enable a penetration via g6 that secures the win:

1 \place{1}{2}f5!

1 h3? \$\displays 8 2 \$\displays f7! 3 h4 g6+! 4 \$\displays 67! = and Black defends the key squares d6, e6 and f6 through opposition.

1...\$f7 2 h3! \$f8

2...g6+3 \(\precent{\precent}\) 2...g6+3 \(\precent{\precent{\precent}\}\) 2...\(\precent{\precent}\) 2...\(\precent{\precent}\) 3 \(\precent{\precent}\) 2...\(\precent{\precent}\) 3 \(\precent{\precent}\) 3 \(\precent{\precent}\) 3 \(\precent{\precent}\) 4 \(\precent{\precent}\) 4 \(\precent{\precent}\) 5 \(\precent{\precent}\) 4 \(\precent{\precent}\) 5 \(\precent{\precent}\) 4 \(\precent{\precent}\) 5 \(\precent{\precent}\) 6 \(\precent{\precent}\) 7 \(\precent{\precent}\) 6 \(\precent{\precent}\) 7 \(\precent

3 \$\psig6! \$\psig8 4 h4! \$\psih8 5 \$\psif7 \$\psih7 6 \h5 \$\psih8 7 \$\psif8\$

 $7 \text{ h6??} \text{ $1} \text{h7!} = .$

7...\$h7 8 g6+ \$h8 9 h6! +-

As you can see from these variations, A6.04 would be a draw, whoever is to move, if the h-pawn were already at h3 or h4.

A6.05 Dantas – J.Souza Mendes, Mar del Plata 1951

You certainly haven't been bluffed by \$\dispha\$h3 and have just sacrificed the g-pawn:

1 **\$**h3!? g2

1...\\$xf3?? stalemate.

2 \$xg2 \$e3 --+

A6.06 F.Hellers – V.Eingorn, Debrecen Echt 1992

Black can only hold the draw by building a stalemate refuge for his king:

1...蛤g6! 2 蛤xe5! 蛤g5! 3 蛤e4

3 h4+ \$\preceq\$g4 4 \$\preceq\$e4 h5 5 \$\preceq\$e5! \$\preceq\$xh4 6 \$\preceq\$xf4! stalemate.

3...h5! 4 \$\displayse\$ \$\displayse\$ h4! 5 \$\displayse\$ xf4 stalemate (\frac{1}{2}-\frac{1}{2})

A6.07 B.Züger – Ru.Rodriguez, Dubai OL 1986

Actually we deal with such positions in Chapter 8 on passed pawns. Due to the forced variations the stalemate idea nearly creates itself:

1 c7! \$\prexc7 2 \prexc9 e5 f4! 3 gxf4! g4!? 4 \$\prexc9 e4\$

4 f5? g3! 5 f6 **\$**d7 −+.

4...\$\d6 5 \$\pmeq\$e3! \$\pmeq\$d5 6 \$\pmeq\$f2! \$\pmeq\$e4 7 \$\pmeq\$g3! \$\pmeq\$f5! \$\frac{1}{2}-\frac{1}{2}\$

Because of 8 \$\disphah4! \dispxf4! stalemate.

A6.08 Krejcik, Deutsches Wochenschach, 1908

If you have noticed the stalemate cage the solution of this study wasn't that difficult any more:

1 cod7!

1 h5? \$\preceq\$a6!! 2 h6 \$\precep\$a5! 3 h7 a6! 4 h8 \$\precep\$stalemate.

1...a5

8...\\docume=64+9\docume=66+10c6\docume=63+11c5+-.

9 \$\pm\$b5! \$\pm\$e8+ 10 c6 \$\pm\$b8+ 11 \$\pm\$xb8+! \$\pm\$xb8 12 \$\pm\$xb4! +-

A6.09 Y.Averbakh

This position, which is very close to 6.07, occurred in a practical game. Because of his detailed analysis we have ascribed it to Averbakh. The drawing manoeuvre is not at all obvious:

1...**⊈**d7!!

1...\$\preceq\$c\$? 2 \$\preceq\$g4 \$\preceq\$d6 (2...c6 3 b6! +-) 3 a6 bxa6 4 bxa6! \$\preceq\$c6 5 c5! and White wins.

1...c6? (here this stalemate defence is not sufficient since the black king has to stay in the square of the b6-pawn and therefore isn't able to keep the opposition) 2 b6! c5 3 \$\div g4\$ \$\div d7\$ 4 \$\div h5\$ \$\div c6\$ 5 \$\div xh6\$ \$\div d6\$ 6 \$\div g6\$ \$\div c6\$ 7 \$\div g7\$ \$\div d6\$ 8 \$\div f8\$ \$\div d7\$ 9 \$\div f7\$ \$\div c6\$ 10 \$\div c8\$ \$\div d6\$ 11 \$\div d8\$ +-.

2 \$65 \$c8! 3 \$g6 \$b8! 4 \$xh6 \$a7! 5 \$g6 c6! 6 \$f6

Not 6 b6+?? \$\delta a6! -+. The elimination of the move b6 was the idea of the long king-march to a7.

6 bxc6 bxc6! 7 \(\psi 6 \) \(\psi a6! 8 \) \(\psi e6 \) \(\psi xa5! \)
9 \(\psi d6 \) \(\psi b4 10 \) \(\psi xc6! \) \(\psi xc4! = . \)

6...cxb5! 7 cxb5! \$\psi b8! 8 \$\psi e6 \$\psi c8 9\$ \$\psi d6 \$\psi d8! = (6.02)

A6.10 A.Ermolinsky – D.Komarov, USSR 1986

White can only get access to the black position by a timely pawn sacrifice:

1 f4+

1 \$\preceq\$2?! \$\preceq\$d5 (1...\$\preceq\$6?! 2 e4 +-) 2 \$\precep\$h3 \$\precep\$e6!? and now:

- a) 3 e4? fxe4! 4 fxe4 \$\precepter\$! 5 f3 \$\precepfer\$f4! 6
 e5 (6 \$\precepter\$g2 g4! 7 fxg4 \$\precepter\$xg4! =) 6...\$\precepter\$xf3!
 7 e6 g4+! 8 \$\precepter\$h4 g3! 9 e7 g2! 10 e8\$\precepter\$g1\$\precepter\$! 11 \$\precepter\$f7+ \$\precepter\$e4 12 \$\precepter\$xc4+ \$\precepter\$f5 =.
- b) 3 f4?! gxf4 4 exf4! \$\ddots \ddots \cdot (4...\ddots \ddots \d

1...gxf4+ 2 \place*f3!!

It is reciprocal zugzwang with Black to move.

2...fxe3 3 fxe3! \$\psi d5 4 \$\psi f4! \$\psi e6 5 e4! fxe4 6 \$\psi xe4! 1-0

Compare the analysis by Ermolinsky and Livshits in Inf 41.

A6.11 A.Yermolinsky – I.Ivanov, USA Ch (Parsippany) 1996

1 g5!

Certainly not 1 \$\preceq\$e2?? fxg4! 2 hxg4 h5! -+.

The game actually continued 1 gxf5? gxf5! 2 \$\preceq\$e2 \$\precep\$e7 3 \$\precep\$d3 h5 4 \$\precep\$xd4 h4 5 \$\precep\$d3 \$\frac{1}{2}-\frac{1}{2}\$.

1...**⊈**f7

1...\$\psi_7 2 e6 (after 2 \$\psi_22?! h5!? White first has to threaten a penetration on the kingside in order to be successful in the centre: 3 gxh6+! \$\psi_xh6 4 \psi_d3 \psi_g7 5 \$\psi_xd4 \psi_f7 6 \$\psi_e8 \psi_e6 7 \$\psi_f3 \psi_d5 8 \$\psi_g3 \psi_xc5 9 \$\psi_f3 \psi_d5 10 \text{ h4 c5 } 11 \$\psi_e8 \text{ c4 } 12 \$\psi_d2 \psi_e6 13 \$\psi_c3 \psi_d5 14 \text{ e6 }\psi_xc6 15 \$\psi_xc4! \$\psi_d6 16 \$\psi_d4! +-) 2...\$\psi_f8 3 \$\psi_e2! \$\psi_e8 4 \$\psi_d3 \$\psi_e7 5 \$\psi_c4! \$\psi_xe6 6 \$\psi_xd4! +-.

2 \plus e2! \plus e7

2...\$e6 3 \$d3 \$d5 4 e6! +-.

3 항d3 항e6 4 항xd4 항d7 5 항c3 항e6 6 항c4 항d7 7 e6+ 항e7 8 항d3 항xe6 9 항d4! 항d7 10 항e5! 항e7 11 h4! +-

See also Christiansen, Hecht in *CBM* 55.

A6.12 Variation of A.Ryskin – Y.Zeziulkin, Czestochowa 1992

The position is nearly closed, so despite the two extra pawns White has to act very carefully to penetrate with his king in a winning way:

1 **⋭**d2

Kingside penetration fails: 1 \$\psi f3?! \$\pme 6 2 g5? fxg5! 3 \$\pme g4 \$\pm f6! 4 g3 \$\pme 6! =.

An attempt on the queenside without support of the king doesn't work either: 1 c4? b4! =; 1 b4? cxb4! 2 \$\display\$ d3 (2 cxb4 =) 2...bxc3 3 \$\display\$ xc3 (3 bxc3? \$\display\$ c5! 4 \$\display\$ c2 \$\display\$ c4! 5 g3 b4! 6 cxb4 \$\display\$ xb4! 7 \$\display\$ d3 \$\display\$ b5! =.

1...\$c6 2 \$c2 \$b6 3 \$b1 \$a6 4 \$a2 \$b6 5 \$a3

Thanks to White's spare tempi, Black now can't prevent a white penetration:

5...**⊈**a5

5...\$\perpare a6 6 b4 c4 7 b3 cxb3 (7...\$\perpare 6 8 bxc4 bxc4 9 \$\perpare a4 +-) 8 \$\perpare xb3 \$\perpare b6 9 c4 +-.

6 b4 +

6 g3 b4+ 7 \$\display2! \$\display5 8 \$\display1!? \$\display6 (8...c4 9 \$\displayc2 +--) 9 \$\displayc2 \$\display6 10 \$\displayd3 \$\display5 11 g5!? fxg5 12 g4! \$\display6 13 \$\displayc4 +--.

6...cxb4+7 \$\delta 53! bxc3 8 bxc3! \$\delta 6 9 \$\delta b 4 \$\delta b 6 10 c4 bxc4 11 \$\delta xc4! \$\delta c6 12 \$\delta 5\$

12 g3 +-.

12...fxg5 13 g4! \$\d6 14 \$\d5! +-

White has advanced to the key squares of the e5-pawn.

A6.13 V.Smyslov – W.Watson, New York 1987

In contrast to the last example, here the side that has a material advantage

isn't able to win because the activity of the white king prevents a penetration on the queenside, while the centre and kingside are closed:

1 a3!

1 h3? \$c7! -+; 1 a4? \$c7 2 \$a6 \$c6! -+; 1 \$a4? \$c6 2 a3 \$c7 3 \$b5 \$b5! 4 h3 h6 5 f3 f6 6 \$a4 \$a6 7 \$b3 \$b5 8 a4+ \$a6 9 \$b2 b5 10 \$b3 bxa4+ -+ (after 10...b4?? = White would have an impregnable fortress).

1...h6 2 h3 \$\psic 7 3 \$\psi a6! \$\psi c6 4 a4! \$\psi c7 5 \$\psi a7! \$\psi c6 6 \$\psi a6! f6 7 f3! \$\frac{1}{2} -\frac{1}{2}\$ Due to 7...\$\psi c7! 8 \$\psi a7! \$\psi c6! 9 \$\psi a6! =.

A6.14 H.Reddmann

Of course there also has to be an underpromotion exercise, even though, it has to be admitted, it is not an easy one.

1 **\$**e6!

1 \$\psi f6? \$\psi xh7! 2 \$\psi f7 h5! -+; 1 \$\psi f7? h5! 2 gxh5 \$\psi xh7 -+.

1...h5!?

1...\$xh7 2 \$f6! h5 3 \$xg5! hxg4 4 \$xg4 =.

2 gxh5! g4 3 \$f5! g3 4 \$g6! g2 5 \$h6! g1\$\tilde{Q}\$

5...g1 \(\textit{\Omega}\) =. The blocked pawns on a2 and a3 build a familiar fortress against the 'right' (controlling the queening square) bishop. White only has to oscillate between b1 and c2. 5...g1 \(\textit{\Omega}\) is stalemate.

6 \$g6 De27 \$f5 Dc3 8 \$e5! Dxa2

To win, Black would have to protect his passed pawn from b5 or c4, but he can't manage that.

9 \$\psi d4! \overline{\Omega} c1 10 \$\psi c3! \$\psi xh7 11 \$\psi c2\$ a2 12 \$\psi b2! =

■ This stalemate idea has been used in a whole lot of studies (see, e.g., ECE 232, 338, 1171, 1424, 1541, 1610; also ECE 1585 shows a related idea). Especially ECE 1396 (Lazard, 1924) should be mentioned, in which there are white pawns at b3 and b4 and a black pawn at b5 instead of the a2- and a3-pawns.

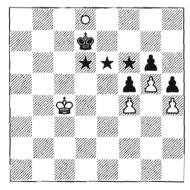
7 Pawns on One Wing

One can recognize a lot of similarities to our findings of Chapter 2. Especially the difference between critical and key squares here plays an important role. Also the activity of the kings is very important. In this connection the reader should study 7.09 very carefully.

Since there are more pawns on the board, a counter-attack is rather more promising than in Chapter 2 (see 7.02). The importance of the stalemate ideas shown in Chapter 6 becomes clear in 7.08. This example should be studied carefully as well.

A) Fixed Pawn-Structure

Naturally the king is only able to capture the base of the pawn-chain:



7.01 +/=

Here the g6-pawn is the base of the pawn-chain (f4 and h4 are the white base pawns) with the critical squares f6, e6 and d6. There are two more critical squares, which we didn't consider in Chapter 2, namely d7 and d8 (in general those two squares from the outside critical square in the direction to the 8th rank). If one doesn't have to take account of a counter-attack towards one's own base, then in general the critical squares are also the key squares, because after capturing the enemy base, the other pawns will also fall

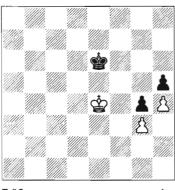
1 \psid5! \psie7 2 \psie5!

As we already know, in the fight for three adjacent key squares, only taking the opposition on the main line leads to success. 2 \(\preceqce{c}\)c6? would be wrong, since after 2... \$\dot\ellowe6! Black has the lateral opposition: 3 \(\preceq c5 \)\(\preceq e7!\) (diagonal opposition) 4 \$\precedot d5 \precedot d7! (normal opposition) 5 \$\precedot e5\$ \$\preceq e7! = After 2 \preceq c5? \preceq e6! 3 \preceq c6 \preceq e7! 4 \(\preceq\)c7 White has the lateral opposition and so conquers one of the critical squares. However, it turns out that Black can save himself with a counterattack, d8 is therefore the only critical square that is not a key square. 4...\$e6! 5 \$\dds!? \$\ds.1?\$ 6 \$\dispersection 6 \dispersection 6 \dispersection 6 \dispersection 7 \di \$\psixh5 f4! 10 g6 f3! 11 g7 f2! 12 g8\# fl\| =. With accurate defence, the hpawn is not enough to win.

2...\$f7 3 \$\d6! \$\

If Black is to move in 7.01, he can make a simple draw by 1...\$\picon 6\$ (except for 1...\$\picon 7?, every move is playable – even 1...\$\picon 7?!).

Usually a counter-attack is possible if the top of the defender's pawn-chain is far-advanced:



7.02 =/=

1...**\$**d6!

1...堂f6? 2 堂f4! 堂e6 (now the counter-attack is too late because the white king is nearer the h5-pawn; 2...堂g6 3 堂e5! +-) 3 堂g5! 堂e5 4 堂xh5! 堂f5 5 堂h6 堂e4 6 堂g5 堂f3 7 h5! 堂xg3 8 h6! 堂f3 9 h7! g3 10 h8豐! g2 11 豐d4 and White wins.

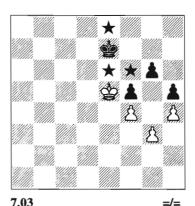
2 \$f5 \$d5! 3 \$g5 \$e4! 4 \$xh5! \$f3! 5 \$g5 \$xg3! 6 h5! \$f3! 7 h6 g3! 8 h7 g2! 9 h8 \$\tilde{y}\$ g1\$\tilde{y}\$+! =

■ A further example of such a counter-attack is O.Romanishin-A.Anastasian, Moscow OL 1994: w\$\dagged 3,\text{\Delta}e2,f3,g4; b\$\dagged 5,\text{\Delta}e5,f4,g5: 1...\$\dagged 54!! 2 e3!? \$\dagged 5 \dagged 6 \dagged xg5 \$\dagged 63! 7 \dagged 64 \dagged xf3! 8 g5 \$\dagged e2 \frac{1}{2}-\frac{1}{2}.

The following pawn-structure is also of great importance (see following diagram):

The pawns are fixed since a move with the g-pawn would obviously mean suicide. The big difference from 7.01 is the fact that White doesn't control f6. This changes the key square situation. These are f6, e6, e7 and e8. d6 here doesn't belong since Black is able to get the side opposition:

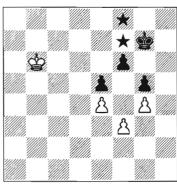
ି 1...\$f7! 2 \$d6 \$f6! 3 \$d7 \$f7! 4 \$d8 \$f8! 5 \$c7 \$e7!



5...\$g7? 6 \$c6! (since now Black can't get the distant opposition, he loses the fight for the key squares on the e-file) 6...\$\perp f6 7 \$\perp d6! \$\perp f7 8 \$\perp d7! \$\perp f8 9 \$\perp e6!\$ \$\perp g7 10 \$\perp e7! \$\perp g8 11 \$\perp f6! \$\perp h7 12 \$\perp f7!\$ \$\perp h6 13 \$\perp g8! +-.\$

6 \$c6 \$e6! =

If one moves 7.03 to the left, there is an additional drawing possibility:



7.04 +/=

Here only f8, f7 and the f6-pawn itself are key squares because the h-file gives Black enough space to keep the opposition:

1...**⇔**h6!!

In order to prevent the white king from encircling the base (f6), Black has to take the distant opposition. Not 1...\$\preceph8? 2 \$\precepce c6! \$\precepg8 3 \$\precepts d6! \$\precepts f8 4 \$\precepse c6! \$\precepts g6 6 \$\precepfs f8! +-.\$

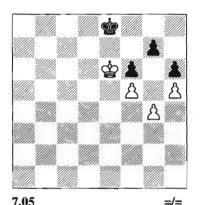
2 &c7 &g7! 3 &b7 &h7!

3...\$f7? 4 \$b6! \$g6 5 \$c6! \$h7 6 \$d7! \$h6 7 \$e8! \$g7 8 \$e7! +-.

4 \$\pm\$b8 \$\pm\$h8! 5 \$\pm\$c8 \$\pm\$g8! 6 \$\pm\$d7 \$\pm\$h7!
7 \$\pm\$e6 \$\pm\$g6! =

We will discuss the corresponding squares in 12.03.

If one moves 7.03 up the board, the position is a clear draw:



White is not able to go round the base g7. Therefore also the opposition doesn't play a role since there are only two key squares, g7 and g8.

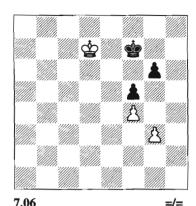
1...\$f8! 2 \$d7 \$f7

2...\$\psig8 3 \psige8 \psih7 4 \psif7 \psih8! 5 \psif8 = (5 \psig6?? \psig8 -+).

3 \$\d8 \$f8 =

B) Flexible Pawn-Structure

Since there are still pawn moves available, both sides have more options:



V.Rührig – J.Dueball Bundesliga 1985/6

In contrast to 7.03 an encirclement wouldn't help White because Black escapes with a pawn exchange:

1...\$f6 2 \$e8 g5!?

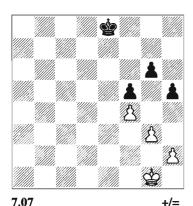
With this thematic counter Black reduces the material in such a way that not enough remains. 2...\$27 3 \$27 \$26 \$46 \$46 \$47! (4...\$45? 5 \$27! g5 6 \$46! +- (2.04)) 5 \$7 \$46! 6 \$28 g5! 7 \$77 gxf4! 8 gxf4! \$47! = (2.07); 2...\$63 \$46 \$46! 4 \$28 g5! 5 \$47 gxf4! 6 gxf4!

3 \$\psi d7 gxf4 4 gxf4! \$\psi f7 5 \$\psi d6 \$\psi f6 6\$ \$\psi d5 \$\psi f7 7 \$\psi e5 \$\psi e7 \frac{1}{2} - \frac{1}{2}\$

An exchange that makes the defence easier is impossible in the following study (see next diagram):

Black's pawn-chain is seriously weakened by the advanced h-pawn. Playing ...\$\pm\$17-f6 followed by ...g5 wouldn't help because White could close things up by h4 and advance to the key squares of the f5-pawn. Also the exchanging attempt ...h4 just fails, as we will see later. Finally, the white h-pawn gives two extra tempi, which are both needed for White to win:

1 \psi f2!



7.07 +/=
N.Grigoriev
Sbornik etiudov, published 1954

1 \$\pmug2? \$\pmue7 2 \$\pmueh3 (2 \$\pmuef3 \$\pmue6 3 \$\pmue6 2...\$\pmuef6? 3 \$\pmueh4! \$\pmuef7 4 \$\pmuef5! \$\pmuef7 5 \pmuef3! \$\pmuef7 6 \$\pmueh6! \$\pmuef6 6 \pmuef6! \$\pmuef6 6 \pmuef6! \$\pmuef6 6 \pmuef6! \$\pmuef6 6 \pmuef6 6 \pmuef6

1...\$f7 2 \$e3! \$e6

2...\$\perp 63\$ \$\perp 44\$ g5 4 h4! +-; 2...\$\perp 73\$ \$\perp 44!\$ h4 4 gxh4! \$\perp h6 5\$ \$\perp 65!\$ \$\perp h5 6\$ \$\perp 66!\$ \$\perp xh4 7\$ \$\perp xg6!\$ \$\perp 48\$ h4! +-. This line shows that the starting position with the black king on f8 would be drawn.

3 \$\d4! \$\d6 4 h3!

White uses the first spare tempo to get his king to the 5th rank.

4...\$e6 5 \$c5! \$e7

5...\$\d7 6 \$\d5! \$\d5! \$\d5! 7 \$\d5 \d5! 8

6 **\$**c6!

6...\$e6 7 h4!

The second spare tempo enables the white king to go round the black king:

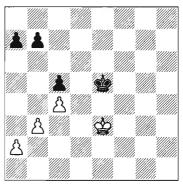
7...\$e7 8 \$c7! \$e6 9 \$d8! \$f7

9...\$\psi d5 10 \psi e7 \psi e4 11 \psi f6 \psi f3 12 \psi xg6! \psi xg3 13 \psi g5! +-.

10 \$d7! \$f8 11 \$e6! +-

■ The way analogous to $1 ext{ } ext{$\text{$\geq}$2 can be}$ followed in the following study by Grigoriev (*ECE* 354; the reader should try to solve it himself): $ext{$\sec{$\geq}$}$ 01, $ext{$\del{$\del{$\del{$\geq}$}}$ 1, $ext{$\del{$\del{$\geq}$}$ 2,3,h3; b\(\del{\$\del{\$\del{\$\del{\$\geq}\$}}2,66,h5: White to play and win.

If the pawn-structure isn't yet seriously weakened, the defender can usually avoid losing:



7.08 =/= S.Homann - L.Borbjerggaard NATO Ch. Breda 1994

Here there are many ways to draw, although some are quite complicated. Nevertheless (or perhaps because of this), the reader should study them.

1 **☆**d3

1 a3 is the simplest way:

a) 1...a5?! and now:

a1) 2 \$\daggerd 3 \daggerd f4 3 a4! (3 b4? b6! -+) 3...\$\daggerd f3 4 \daggerd d2! \daggerd f2 5 \daggerd d3! =. The threatened counter-attack secures the draw.

a2) 2 a4 b6 3 \$\daggerds d3 \$\daggerds f4 4 \$\daggerds d2 =.

b) 1...a6 2 b4 b6:

b1) 3 bxc5? bxc5! 4 a4 a5! -+.

b2) 3 b5 axb5 (3...a5 4 a4! =) 4 cxb5! \$\ddot d5 5 \ddd d3 =.

b3) 3 *d3:

b31) 3...a5 4 \$\pmeq\$e3!! \cxb4 (4...\pmeq\$f5 5 b5! =) 5 \axb4! \axb4 6 \$\pmeq\$d3! \$\pmeq\$d6 7 \$\pmeq\$c2! \$\pmeq\$c6 8 \$\pmeq\$b3 \$\pmeq\$c5 9 \$\pmeq\$a4! \$\pmeq\$xc4 stalemate.

b32) 3...\$\psi f4 4 \psi c3 \psi e3 (4...a5 5 \psi b3 \psi e4 6 \psi a4 axb4 7 axb4! \psi d4 8 \psi b5 cxb4! 9 \psi xb4! =) 5 b5! a5 6 \psi b3! = (6.04).

1...\$f4 2 \$\d2

The immediate construction of a stale-mate refuge by 2 \$\precept{\phi}c3\$ also here seems to be the logical way: 2...\$\precept{\phi}c3\$ (2...a5?! 3 \$\precept{\phi}b2\$ a4! =; 2...\$\precept{\phi}c4\$ 3 b4 cxb4+ 4 \$\precept{\phi}cb4\$ 4 5 a3 a6 6 a4 \$\precept{\phi}d3\$ 7 c5 \$\precept{\phi}d4\$ 8 \$\precept{\phi}a5!\$ =) 3 b4 b6 4 b5 \$\precept{\phi}c4\$ 5 \$\precept{\phi}b3\$ \$\precept{\phi}d4\$ 6 a3! = (6.04).

2...\$f3 3 \$d3

3 **\$**c3 **\$e**3 4 b4 =.

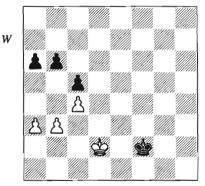
3...b6 4 2d2

4 \$\preceq\$c3 \$\preceq\$e3 5 a3 \$\preceq\$e4 (5...a5 6 a4! =) 6 b4 =.

4...\phif2 5 a3?

For no reason, White weakens his pawn-structure.

5...a6!! (D)



6 **⋭**d3

6 b4 a5! -+.

In the actual game, White lost as follows: 6 a4?! a5! 7 \$\ddot d3 \$\ddot e1! 8 \$\ddot c3 \$\ddot d1! 9 \$\ddot b2 \$\ddot d2! 10 \$\ddot a3 \$\ddot c3 0-1.

6...\$f3! 7 \$c3

7 \$\psid2 a5 8 \$\psid3 a4 9 \$\psid2 (for 9 bxa4 \$\psif4! \to ++, see the main line) 9...\$\psie4! (not 9...axb3? 10 \$\psic3! \$\psic3 11 \$\psixb3! \$\psid3 12 \$\psia4! \$\psixc4! stalemate) 10 \$\psic3 \$\psic3! 11 \$\psic2 \$\psid4! 13 \$\psic5 2 \$\psid4! 13 \$\psic5 2 \$\psid4! 13 \$\psic5 2 \$\psid4! 14 a5 bxa5! 15 \$\psia4 \$\psixc4! \to ++) 11...\$\psid4 12 \$\psic5 2 \$\psid3 -+.\$

7...a5! 8 \$\d2!? a4!

We now find ourselves in a study by Grigoriev (see, e.g., Av 525 or ECE 356). Not 8...\$e4? 9 a4! =.

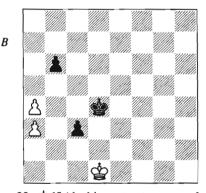
9 \$\d3 \$f4!

 $9...axb3? 10 \cdot c3! = ...$

10 **c**2

10...\$e3! 11 \$c3 \$e2! 12 \$c2 \$e1! 13 \$c1

13 \$\psic 3 \$\psi d1!\$ 14 bxa4 \$\psic 2!\$ 15 \$\psic 2\$\$ \$\psic a 3!\$ 16 \$\psic 3\$\$ \$\psic 4!\$ 17 \$\psic 2\$\$ \$\psi d4!\$ 18 \$\psi b 3\$\$ \$\psi d 3!\$ 19 \$\psi b 2\$\$ \$\psi x c 4!\$ 20 \$\psi c 2\$\$ \$\psi d 4!\$? (D).



23...\$\d5 (the king retreats - no exclamation mark, as it is the start of a triangulation; 23...\$\d3?! 24 \$\d2c1 c2?? 25 a5! bxa5! 26 a4! =) 24 \$\d2c1 \d2c5 25 \$\d2c4! (since White can still lose a tempo

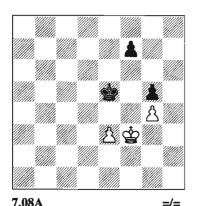
by a5 and a4, here, in contrast to the example Fahrni-Alapin, d4 is the corresponding square to d1) 26 \$\phi c1 \phi d3 ! 27\$\$\phi d1 c2+! 28 \$\phi c1 \phi c3! 29 a5 bxa5! 30\$\$ a4 \$\phi d3 -+.\$\$

13...axb3! 14 \$\psi b2 \$\psi d2 15 \$\psi xb3 \$\psi c1! 16 \$\psi c3 \$\psi b1! 17 \$\psi b3 \$\psi a1!\$

Using the whole board.

18 a4 \$\psi b1! 19 a5 bxa5! 20 \$\psi a4 \$\psi b2\$
21 \$\psi xa5 \$\psi c3! 22 \$\psi b5 \$\psi d4! =+\$

The next example features a similar pawn-structure to that near to the end of 7.08; however, there are totally different variations.



7.08A N.Giertz – B.Kamber Suhr 1992

Since here Black still has the spare tempo ...f7-f6 particular precision is necessary. In the game, there followed 1 \$\displaysephi 2 \displaysephi 4 \displaysephi 3 \displaysephi 6 \displaysephi 4 \displaysephi 6 \displaysephi 4 \displaysephi 6 \display

1 \$\psi 12! \$\psi e 4 2 \$\psi e 2! f6 3 \$\psi 12! \$\psi d3 4\$ \$\psi f3! \$\psi c3 5 \$\psi e 2\$

5 \$\psi_83 \$\psi_c2 6 \$\psi_92! =; 5 \$\psi_c4? \$\psi_d2! 6\$\$\$\$ \$\psi_d4 \$\psi_c2 7 c4 \$\psi_f3 8 \$\psi_d5 \$\psi_f4! 9 \$\psi_c6 \$\psi_xc4! -+.\$\$

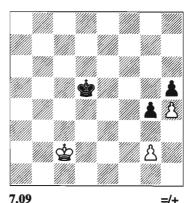
5...**⊈**c4

But not 5...\$\precepc2? 6 e4! \$\precepc2 7 e5!! (7 \$\precepc2 8 \precepc2 4! 8 e5! \$\precepc 45! =) 7...fxe5 8 \$\precepc2 8! +-.

6 **∲**f2 =

C) Passive Defence

In general a passive defence is only sensible if at least one base pawn is still on its starting position, because such a pawn can't be the object of an encircling manoeuvre from behind. Nevertheless, the attacker has a lot of ideas available. An elegant encirclement is shown in the following game:

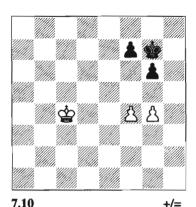


7.09 G.Tringov - L.Stein Amsterdam 1Z 1964

Black uses his active king for a winning penetration that finally leads to the win of the g2-pawn:

In view of 5 \$\psi f2 \$\psi h1! 6 \$\psi g3 (6 \$\psi f1 g3! -+) 6...\$\psi g1 7 \$\psi f4 \$\psi xg2 -+.

If there are no blocked pawns, both sides have more options:



M.Botvinnik Shakhmaty v SSSR, 1952

White has a space advantage and the more active king. The three-time world champion demonstrates how to use these advantages for a winning encirclement:

1 \$\d5! \$f8

1...\$\psi 6 2 \$\psi 6 ! \$\psi 7 3 \$\psi 6 ! \$\psi 6 8\$
(3...\$\psi 4 \psi 5! +-; 3...\$\psi 5 4 \psi 5! \$\psi 6 5 \$\psi d7 +-) 4 \$\psi d7! \$\psi 97 5 \$\psi 68! \$\psi 98 6 \$\psi 67 \$\psi 97 7 \psi 5! \psi 5 8 \$\psi 68 +-.

2 &d6! &e8 3 f5! g5

3...gxf5 4 gxf5! \$\ddot d8 5 f6! +-.

4 **\$**c7!

4 f6? \$\precede{4}\$d8! 5 \$\precede{5}\$e5 \$\precede{4}\$d7 6 \$\precede{5}\$f5 \$\precede{5}\$d6! 7 \$\precede{5}\$xg5! \$\precede{5}\$e6 =.

4...\$e7 5 \$c8! \$d6

5...**⊈**e8 6 f6! +−.

6 \$\precede{d}8! \$\precede{\precede{e}}6 7 \$\precede{e}\$6 8 \$\precede{e}\$67! \$\precede{e}\$64 9 \$\precede{e}\$xf6! \$\precede{e}\$xg4 10 \$\precede{e}\$g6 +--

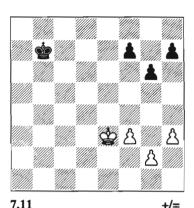
Botvinnik based this study on his analysis of Troianescu-Botvinnik, Budapest 1952.

Also in the following example the more active king is decisive (see next diagram):

The weakness of f6 is fatal for Black:

1 **\$**e4

1 \$\precept{\$4?}\$ f6! 2 g4 \$\precept{\$c6}\$ (2...h6? 3 h4! \$\precept{\$c6}\$ 4 h5! +--) 3 g5 and then:



E.Shvidler – F.Maeser

Lenk 1991

a) 3...f5?! 4 \$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$}\$}\$}\$}}}} \$} d4 ! 6 \$\text{\$\text{\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$}\$}\$}}} 8 \$\text{\$\text{\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\$}\$}\$}}} 6 \$\text{\$\text{\$\$\exitt{\$\$\text{\$\$\text{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\text{\$\$\exitt{\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\exitt{\$\$\e

b) 3...\$\d6 4 gxf6 h6! =.

1...\$c6

1...f6 2 \$\preceq\$d5! \$\precep\$c7 3 \$\precep\$e6! and wins, e.g. 3...f5 4 h4 f4 5 \$\precep\$e5 \$\precep\$d7 6 \$\precep\$xf4 \$\precep\$e6 7 \$\precep\$g5 \$\precep\$f7 8 \$\precep\$h6 \$\precep\$g8 9 h5 gxh5 10 \$\precep\$xh5 +-.

2 \$\dispersection 5! \$\dispersection delta delta

4 ★g7! is necessary to force the advance of the black h-pawn. We saw in Chapter 5 that it is very difficult to win against a pawn that is at h7. 4...h5 5 ★f6!? ★f8 6 h4 ★g8 7 f4 ★f8 8 f5 +-.

4...\$f8! 5 h4

5 g5 \(\pmg 8! =; 5 f4 \(\pmg 8! 6 f5 \) (6 \(\pm e 7 \) \(\pmg 7! 7 f5?? \) gxf5! 8 gxf5 h6! \(-+ \) 6... \(\pm f8! \) draws.

5...**⊈**g8!

The game saw 5...h6? 6 f4! \$\text{\pmg}8 7 h5 1-0 (in view of 7...gxh5 8 gxh5! \$\text{\pmg}f8 9 f5 \$\text{\pmg}e8 10 \$\text{\pmg}g7! \$\text{\pmg}e7 11 \$\text{\pmg}xh6 \$\text{\pmg}f6 12 \$\text{\pmg}h7 \$\text{\pmg}xf5 13 \$\text{\pmg}g7 +--).

6 f4

Or 6 h5:

a) 6...\$\psi f8 7 \text{h6!? g5! 8 \$\psi xg5 \$\psi e7! 9}\$
\$\psi f5 \text{f6!}:

a1) 10 g5 and then:

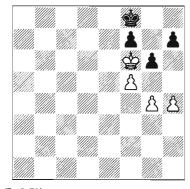
a11) 10...\$\preceptor f7? 11 gxf6! (the analysis is now in the lines of a study by Grigoriev – ECE 1549) 11...\$\preceptor 8 12 \$\preceptor 6 \$\preceptor f8 13 f4\$\$\preceptor 8 14 f7+ \$\preceptor f8 15 \$\preceptor d6!!\$ (this forces Black to capture f7 and thus to enable an encirclement or a penetration by the white king) 15...\$\preceptor xf7 16 \$\preceptor d7! +- (5.10).

a12) 10...fxg5! 11 \$\div xg5 \$\div e6\$ 12 f4 \$\div e7\$ 13 \$\div f5\$ \$\div f7\$! = (12.05).

a2) 10 \(\psi e4 \(\psi e6 \) 11 f4 f5+! =.

b) 6...gxh5 7 gxh5 \$\precepf{g}\$! 8 f4 \$\precepg{g}\$! 9 \$\precepf{e}\$? (9 f5 \$\precepf{g}\$! 10 h6 \$\precepf{e}\$8! 11 \$\precepg{g}\$? f6! 12 \$\precepf{g}\$xf6 \$\precepf{g}\$! =) 9...f5!! 10 \$\precepf{g}\$f6 \$\precept{g}\$f8! 11 \$\precept{g}\$xf5 \$\precepf{g}\$f7! = (5.10); 6 \$\precept{g}\$e7 7 f4 f5! 8 gxf5 gxf5! 9 \$\precepf{e}\$6 \$\precept{g}\$6! 10 h5+ \$\precept{g}\$7! 11 \$\precept{g}\$xf5 \$\precept{g}\$f7! = (12.06).

6...\place{4}f8! 7 f5 (D)



7...h5!!

В

The saving counter. 7...\$\preceq 8? 8 \preceper 6?! h5 9 fxg6! fxg6 10 g5! +-; 7...gxf5? 8 gxf5! h5!? (8...\$\precepg 8 9 \preceper 6?! +-) 9 \precepg 5! \precepg 7 10 f6+! (10 \precep xh5? f6! =) 10...\$\precepg 8 (after 10...\$\preceph h7 the f-pawn can also be captured: 11 \precepf 4 \preceph h6 12 \precepe 4 \precep h7 13 \precept d5 \precepg 6 14 \precepe 65! \preceph h7 15 \precep d6! +-) 11 \precept xh5 \preceph h6 15 \precep d5! \precep g6 16 \precepe 65! \preceph h5 17 \precep d6! +-.

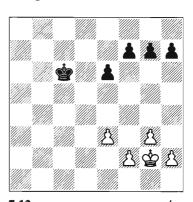
8 g5

8 gxh5 gxf5! =; 8 fxg6?? hxg4! 9 h5 fxg6! 10 h6 \mathfrak{D} g8! -+.

8...gxf5! 9 \$xf5 =

The practical difficulties of such positions are illustrated by the following example from grandmaster practice:

Though Black is a little bit better due to



7.12 = P.Schlosser - P.Blatny

Brno 1992

his more active king, he really shouldn't be able to win against the best defence.

 $1 \ \perp f3 = \ \perp d5 2 \ h4 e5$

2...g6 3 \(\cdot \cdot

3 g4 f6 4 h5 g6 5 hxg6 hxg6! 6 &e2

6 g5?! also draws but a lot of variations have to be calculated precisely:

a) 6...fxg5 7 \$\dispsi 4 \$\dispsi 4 \dispsi 5! \$\dispsi f3!\$
9 \$\dispsi xg6! \$\dispsi xf2!\$ 10 \$\dispsi f5!\$ = (10 e4? \$\dispsi 23!\$
11 \$\dispsi f5 \$\dispsi d4!\$ -+).

b) 6...f57 e4+!? \$ \$ \$ \$ \$ \$ \$ \$ \$ = . \$

c) 6...e4+7 \psig3 (7 \psif4 f5! 8 f3 exf3! 9 \psixf3! \psie5 10 \psif2 =) 7...f5 8 \psig2 \psie5:

c1) 9 **\$2**g3? f4+!:

c11) 10 exf4+ \$\preceptsf5! 11 \$\preceptsg2\$ (11 f3 e3! -+) 11...\$\preceptsxf4! 12 \$\preceptsh2\$ \$\preceptsxxg5\$ 13 \$\preceptsg3\$ \$\preceptsf5! -+.

c12) 10 \$\psi_94\ f3\ 11\ \$\psi_93\ \$\psi_66\ 12\ \$\psi_f4\ \$\psi_d5!\ 13\ \$\psi_93\ \$\psi_c4!\ 14\ \$\psi_f4\ \$\psi_d3!\ 15\ \$\psi_e5\ \$\psi_e2\ -+.

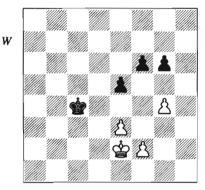
c2) 9 f3? \$\d5! 10 \$\d53 \$\d5! 11 \$\d54 \$\d3! -+.

c3) 9 \$\forall f1! f4 10 exf4+! \$\forall xf4 and now:

c31) 11 \$\pmeq 1? \$\pmeq xg5!\$ 12 \$\pmeq d2 \$\pmeq f4\$ 13 \$\pmeq 2 g5\$ 14 \$\pmeq 1\$ \$\pmeq f3!\$ 15 \$\pmeq f1\$ g4!. In contrast to 4.14, this position is lost since Black has a breakthrough at his disposal due to the proximity to the first rank: 16 \$\pmeq 1\$ \$\pmeq g2!\$ 17 \$\pmeq 2\$ \$\pmeq g1\$ 18 \$\pmeq 1\$ e1 e3 -+.

c32) 11 \$\dot{\phi}\$e2! \$\dot{\phi}\$xg5 12 \$\dot{\phi}\$e3! \$\dot{\phi}\$f5 13 f3 =.

6...**⊈**c4 (D)



7 e4?

7...\$d4! 8 f3

8 g5 fxg5! 9 \$\psi 63 \$\psi d3! 10 \$\psi 94 \$\psi e2!\$
(10...\$\psi xe4? 11 \$\psi xg5! \$\psi f3\$ 12 \$\psi xg6!\$
\$\psi xf2 13 \$\psi f5! =) 11 \$\psi xg5 \$\psi xf2! 12 \$\psi f6\$
(12 \$\psi xg6 \$\psi e3! -+) 12...g5! 13 \$\psi xg5\$ (13 \$\psi xe5 g4! -+) 13...\$\psi e3! 14 \$\psi f5 \$\psi d4! -+.\$

8...\$c3! 9 f4

After 9 \$\doldow{\phi}e3\$ g5 it becomes obvious that the base is on the 3rd rank (see

7.03/7.04): 10 \$\dispec 2 \$\dispec 2!\$ 11 \$\dispec 2 \$\dispec 2!\$ 11 \$\dispec 2 \$\dispec 41!\$ -+.

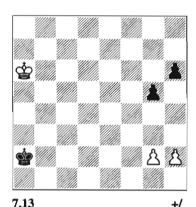
9...g5!

But not 9...\$\d4? 10 g5! fxg5! 11 fxe5 =: 9...exf4?? 10 g5! +-.

10 fxg5 fxg5! 11 \$\preceq\$e3 \$\preceq\$c4! -+ 0-1

D) Active Defence/ Counter-attack

We now get to positions in which both kings attack the opponent's pawns:



N.Grigoriev Shakhmaty v SSSR, 1937

White arranges a structural advantage and then exploits it with great precision:

1 g4!

1 \$\pi\$5? \$\pi\$b2! 2 \$\pi\$c5 \$\pi\$c2! 3 \$\pi\$d5 \$\pi\$d2! 4 \$\pi\$c5 \$\pi\$e2! 5 \$\pi\$f6 (5 \$\pi\$f5 \$\pi\$f2! 6 g4 \$\pi\$f3! =) 5...g4! (5...\$\pi\$f2? 6 g4! \$\pi\$f3 7 \$\pi\$f5! +-) 6 \$\pi\$f5 (6 g3? \$\pi\$f2! 7 \$\pi\$f5 \$\pi\$f3! 8 \$\pi\$g6 \$\pi\$g2! 9 \$\pi\$h5 \$\pi\$h3! -+) 6...g3 7 hxg3! =.

1 \$\psi b6? \$\psi b3! 2 \$\psi c6 (2 \$\psi c5 \$\psi c2! =) \\
2...\$\psi c4 3 \$\psi d6 \$\psi d4 4 \$\psi e6 \$\psi e3! 5 \$\psi f6 \\
g4! =.

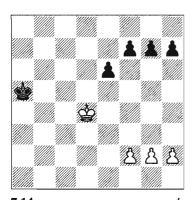
1...\$a3 2 \$a5!

2 \$\psi 5 \$\phi 5 \$\phi 5 \$\phi 5 \$\phi 63 ! 3 \$\phi c 5 \$\phi c 3 ! 4 \$\phi d 5 \$\phi d 3 ! \$ 5 \$\phi c 5 \$\phi c 3 ! 6 \$\phi f 5 \$\phi f 3 ! 7 \$\phi g 6 ! \$\phi x g 4 ! 8\$ \$\psixh6! =; 2 \psib6? \psib4! = (2...\psib2? 3 \psic6! \psic2 4 \psid6! \psid2 5 \psic6! \psic2 6 \psif6! +-).

2...\$b2 3 \$b6! \$\displays 4 \$\displays 5! \$\displays 2 5 \$\displays 6! \$\dinplays 6! \$\displays 6! \$\displays 6! \$\displays 6! \$

A zigzag course full of exclamation marks.

Let's have a look at another practical example, which was annotated by Mufić in *Informator 51*:



7.14
Go.Mufić - N.Ferčec
Yugoslavia 1991

The active white king fully outweighs Black's extra pawn but it just isn't enough for a win:

1 \preceqce5!?

1 \$\psi_65 \$\psi_55 2 \$\psi_66! \$\psi_c4 3 \$\psi_67 \$\psi_03 4\$\$\$\$\$ \$\psi_67 \$\psi_62 5 \$\psi_64 \$\psi_62 6 \$\psi_3 \$\psi_92 7 \$\psi_x 97 \$\psi_5!\$\$\$\$ \$\psi_96 \$\psi_x \psi_5! 9 \$\psi_x \psi_5! \$\psi_x \psi_3! 10 \$\psi_95! =.\$\$\$\$\$\$

1...e5!!

Black must rely solely on his e-pawn; otherwise he is lost, e.g. 1...h5? 2 \$\preceq\$d6 \$\precep\$b5 3 \$\precep\$e7 f6 4 \$\precep\$xe6 +-.

2 g4!?

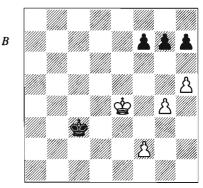
2 \$\psid6 \$\psib5 3 \$\psixe5 (3 \$\psie7 e4 4 \$\psixf7 \$\psic4 5 \$\psixg7 \$\psid3! =) 3... \$\psic6 = is clearly

drawn. Also White could have tried playing 2 h4!?.

2...\$a4?

This loses the decisive tempo. Again the king wasn't allowed to move:

- a) 2...f6 3 \$\ddot d5\$ (3 h4 \$\ddot a4 =) 3...\$\ddot b4\$ 4 \$\ddot e6 \$\ddot c4 5 \$\ddot f7\$:
- a1) 5...g6? 6 \$\preceq\$xf6 \$\preceq\$d4 7 \$\preceq\$g7 \$\preceq\$e4 8 \$\preceq\$xh7! \$\preceq\$f3 (8...g5 9 \$\preceq\$g6 \$\preceq\$f4 10 h3 +--) 9 \$\preceq\$xg6! \$\preceq\$xf2 10 \$\preceq\$f5! \$\preceq\$f3 11 g5! +--; White can immediately exchange queens.
- a2) 5...\$\psi d3! 6 \psi xg7 \psi e2 7 \psi xf6 \psi xf2 8 \psi xe5 \psi g2! =.
 - b) 2...e4 3 h4 \(a4 4 h5:
- b1) 4...\$b3? 5 \$d5 \$c3 (5...\$b4 6 \$xe4! \$c5 7 \$e5 \$c6 8 h6 gxh6 9 f4! \$d7 10 \$f6! \$e8 11 \$g7! \$e7 12 f5 +-) 6 \$xe4! (D).



Now we have an endgame with the same number of pawns, in which the bad position of the black king is decisive.

b11) 6...\$d2 7 g5 \$e2 8 f4:

b111) 8...g6 9 h6! \$\psif2 10 \$\psie5 \$\psif3 11 \$\psif6 \$\psix xf4 12 \$\psig7! (12 \$\psi xf7? \$\psif5 13 \$\psig7 \$\psie6! 14 \$\psig8 \$\psie7! 15 \$\psih8 \$\psif8 16 \$\psix xh7 \$\psif5! =) 12...\$\psi xg5 13 \$\psi xh7! and wins.

b112) 8...\$\psi 2 9 f5 \$\psi 3 10 \$\psi 45!\$ (the necessary preparation for the following breakthrough) 10...\$\psi 94\$ (10...\$\psi 6 11 \hxg6! \hxg6 12 f6! \$\psi f4 13 \$\psi 46!\$ \$\pxi 5 14 \$\psi 7! +--) 11 \$\psi 6!!\$ \hxg6 12 f6! \$\pxi f6 13 \h6! +--.

Chapter 9 deals with pawn breakthroughs.

b12) 6...\$\perp c4 7 g\$\frac{5}{2}\$\perp c5 8 \perp e5! \$\perp c6 9\$
h6! gxh6 10 gxh6! \$\perp d7 11 \$\perp f6! \$\perp e8 12\$
\$\perp g7! \$\perp e7 13 \$\perp xh7 \$\perp f8 14 f3 f5 15\$
\$\perp g6! \$\perp g8 16 \$\perp xf5 +--.\$

b2) 4...h6! 5 \$\phi\$6 \$\phi\$b4 6 \$\phi\$e7 \$\phi\$c4 7 \$\phi\$xf7 \$\phi\$d3! 8 \$\phi\$xg7 \$\phi\$e2! 9 g5 (9 \$\phi\$xh6 \$\phi\$xf2! 10 g5 e3 11 g6 e2 12 g7 e1\$\psi\$ 13 g8\$\psi\$ =) 9...\$\phi\$xf2! 10 gxh6 e3! 11 h7 e2! 12 h8\$\psi\$ e1\$\psi\$! =.

3 **全d6! 全b4 4 全e7! 全c4 5 全xf7! g5** 5...**全**d3 6 **全**xg7! **全e2** 7 **全**xh7 **全**xf2 8 g5! e4 9 g6! e3 10 g7! e2 11 g8**豐**! e1**豐** 12 **豐**g3+! +-.

6 \$\tilde{\psi}\$f6 \$\tilde{\psi}\$d4 7 \$\tilde{\psi}\$xg5 \$\tilde{\psi}\$e4 8 \$\tilde{\psi}\$f6 \$\tilde{\psi}\$f4 9 g5 e4 10 g6 hxg6 11 \$\tilde{\psi}\$xg6! \$\tilde{\psi}\$g4

11...\$f3 12 \$f5! \$xf2 13 \$xe4! \$g2 14 h4! +-.

1-0

As 12 h4 \$\div xh4 13 \$\div f5! wins.

We have seen that an extra pawn isn't everything; on the other hand it could have saved half a point. Of course, usually the only question is whether an extra pawn wins. This issue, the realization of an extra pawn on one wing, is the subject of the rest of this chapter.

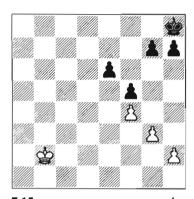
E) Extra Pawn

If the pawn-structure and the position of the king are not too compromised the extra pawn wins (see next diagram):

Though the black king is in the corner, his activation can't be prevented. The fact that the e-pawn is backward is unimportant thanks to the spare tempi with the g- and h-pawns.

1...\$\psi_8 2 \psi_c3 \psi_f7 3 \psi_c4 \psi_e7 4 \psi_c5 \psi_d7 5 h3 h6 6 h4 h5

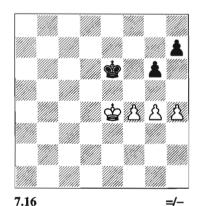
6...e5 is also possible at once, but the activation of the king in the game is more convincing. 7 fxe5 \$\text{\pm}e6! 8 \$\text{\pm}d4\$ h5 (not 8...g5? 9 hxg5 hxg5! 10 g4! =) 9 \$\text{\pm}e3\$ \$\text{\pm}xe5! 10 \$\text{\pm}f3\$ f4! 11 gxf4+ \$\text{\pm}f5\$ -+.



7.15 —/-R.Wessmann – L.Schneider Gothenburg 1990

7 \$c4 \$c6 8 \$d4 \$d6 9 \$d3 \$d5 10 \$e3 \$c4 11 \$e2 \$d4 12 \$f2 \$d3 13 \$f3 \$d2 14 \$f2 \$g6 15 \$f3 \$e1! 16 \$g2 \$e2! 0-1

The next example shows an exception, in which one doesn't realize at first sight why the pawn-structure is weakened:



I.Maizelis Shakhmaty v SSSR, 1954

If White is to move, he can't change the pawn-structure in his favour because he lacks a spare tempo:

1 **\$**d4

Both 1 f5+ gxf5+ (1...\$\frac{1}{2}f7?!=) 2 gxf5+ \$\frac{1}{2}f6= and 1 h5 gxh5! 2 gxh5 \$\frac{1}{2}f6!= lead to a drawn f+h against h-pawn ending, which we have examined in Chapter 5.

Also 1 g5 \$\d6!:

- a) 2 h5 gxh5 (2...\$\perpense6 =) 3 f5 h4! 4 \$\perpenset\$f4 h3! (for 4...\$\perpenset\$d5? 5 \$\perpenset\$g4! \$\perpenset\$e5 6 f6! +-) 5 \$\perpenset\$g3 \$\perpenset\$e5 6 f6 \$\perpenset\$e6 7 \$\perpenset\$xh3 h6 is a draw.
- b) $2 \text{ f5 gxf5+! } 3 \text{ $\circ} \text{xf5 $\circ} \text{e7!} = \text{leads to}$ nothing.

1...\$d6! 2 \$c4 \$c6! 3 \$c3 \$c7! =

If it is Black to move, he has to retreat by one rank:

1...**\$**d6

1...\$\psi6 2 \$\psid5 \$\psie7 3 \$\psie5 \$\psif7 4 \$\psid6\$ \$\psif6 5 \$\psid7 \$\psif7 6 g5 +-.

2 \$\psi d4! \$\psi e6 3 \$\psi c5! \$\psi e7\$

3...h5 4 g5 (4 gxh5 gxh5 5 \$\dd4! +-)
4...\ddf5 5 \$\dd5 \dd7 xf4 6 \dd6! \ddg4 7 \ddf6
\ddr4 xh4 8 \ddr4 xg6! +-.

4 \$\d5! \$\d7 5 \$\d5 \$\d5"

With the king on e5, the transition into an ending with f+h vs h wins:

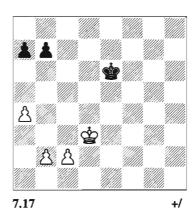
6 h5

- 6 g5 \$f7 7 \$d6! \$f8 8 \$e6! \$e8 9 \$f6! \$f8 10 h5! gxh5 11 \$e5!:
- a) 11...\$e7 12 f5! h4 (12...\$d7 13 \$f4! \$d6 14 \$g3! +-) 13 \$f4! \$d6 14 \$g3! +-) 13 \$f4! \$d6 14 \$g4! \$e5 15 f6! \$e6 16 \$xh4! h6 17 \$h5! hxg5 18 \$g6! +-.
- b) 11...h4 12 \$\dispersection e4! \$\dispersection e7 13 \$\dispersection f3! \$\dispersection e6 14 \$\dispersection g4! +-.

6...gxh5 7 gxh5! \$\precept{gf7 8 \$\precept{d6!} +-} (5.10).

If in the starting position the black hpawn is at h6, White wins, whoever is to move (*ECE* 1185; also look at, e.g., 5.08).

In the study by Maizelis the pawns were already far advanced. When they are still further back, usually the win should be forced:



S.Ludwig – A.Klauser

Bad Ragaz 1990

White has already played a4, so the endgame c+a vs a-pawn again is a draw. White therefore has to negotiate some hurdles since the usual procedure 'candidate in front', in order to transform the majority into a passed pawn, doesn't win here. A pawn in a majority is, according to Nimzowitsch, called a candidate if it has no counterpart on its file. The rule 'candidate in front' basically means that at first the candidate should advance as far as possible in order then to be supported by its neighbours to create a passed pawn. This rule especially serves the wish to avoid structures with backward pawns, but in the present case an advance like b4, c4, c5, b5 and c6 only leads to a draw because of 5.10.

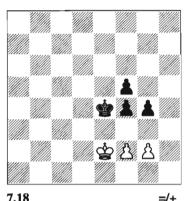
1 \$\psic4 \$\psid6 2 \$\psib5 \$\psid5 3 c4+ \$\psid6 4\$ a5 \$\psic7 5 c5

The game actually continued 5 \$\preceq\$c5 \$\preceq\$d7 6 b4 \$\preceq\$c7 7 b5? (7 \$\preceq\$b5! \$\preceq\$d7 8 c5! \$\preceq\$c7 9 a6! +-) 7...b6+! (7...\$\preceq\$d7? 8 b6 +-; compare to A4.06 and 6.03) 8 axb6+ axb6+! 9 \$\preceq\$d5 \$\preceq\$d7! = (4.08).

5...a6+

5...**\$**d7 6 a6 +−.

6 \$c4 \$c6 7 b3! \$c7 8 \$d5! \$d7 9 c6+ bxc6+ 10 \$c5! \$c7 11 b4! +- In the next example the outcome again depends on the right to move:



7.18 Minev *ECE*, 1982

Black is a doubled pawn ahead. Even though it can't be used to build a passed pawn, it can provide the decisive spare tempo!

1...f3+!?

Black wins by exchanging the g-pawn immediately: 1...\$\preceq d4 2 f3 (2 \$\preceq d2 f3 -+)

2...\$\psic4! (2...\$\psic3? 3 g3!! fxg3 4 fxg4! f4 5 g5! g2! 6 \$\psic5! \psic4 d3 7 g6 f3 8 g7! g1\$\psic4+ 9 \$\psixg1! \psic6 e2! =) 3 g3 (3 \$\psic4 d2 gxf3 4 gxf3 \$\psic4 d4! -+) 3...fxg3! 4 fxg4 f4! -+.

2 gxf3+ gxf3+! 3 \$\d2 \$\d4 4 \d2 1

4 \text{\$\psi\$}\d3 \text{\$\psi\$}\g5! 5 \text{\$\psi\$}\d4 \text{\$\psi\$}\h4 6 \text{\$\psi\$}\ead 4 \text{\$\psi\$}\h4 6 \text{\$\psi\$}\ead 4 \text{\$\psi\$}\h4 6 \text{\$\psi\$}\ead 4 \text{\$\psi\$}\h4 6 \text{\$\psi\$}\ead 5 \text{\$\psi\$}\g4! also wins for Black.

4...\$\psi_4 5 \psi_1 \psi_h4 6 \psi_21 \psi_h3! 7 \$\psi_h1 \psi_24! 8 \psi_21 \psi_4! 9 \psi_11 \psi_24! 10 \$\psi_21 \psi_43! 11 \psi_41 f4! -+

If White is to move, he blockades the doubled pawns and thus takes away the important spare tempo:

1 f3+!

1 \$\pie1? f3 2 g3 (2 \$\pif1 fxg2+ 3 \$\pixg2\$ \$\pif4 -+) 2...\$\pid3 3 \$\pid1 f4 -+.

1...\$d4 2 \$d2!

2 fxg4? fxg4! 3 \$\dd{2}\$d2 (3 g3 f3+! -+) 3...\$\dd{2}\$e4 4 \$\dd{2}\$e2 g3 -+.

2....**⊈**e5

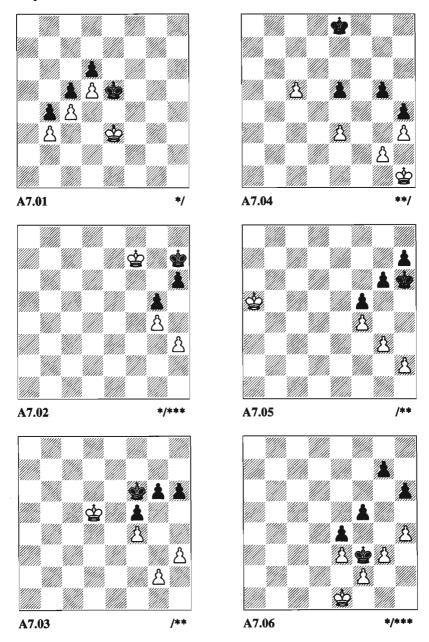
2...g3 3 2e2 2c3 4 2f1 2d2 5 2g1 =. The white king remains in the corner (6.01D).

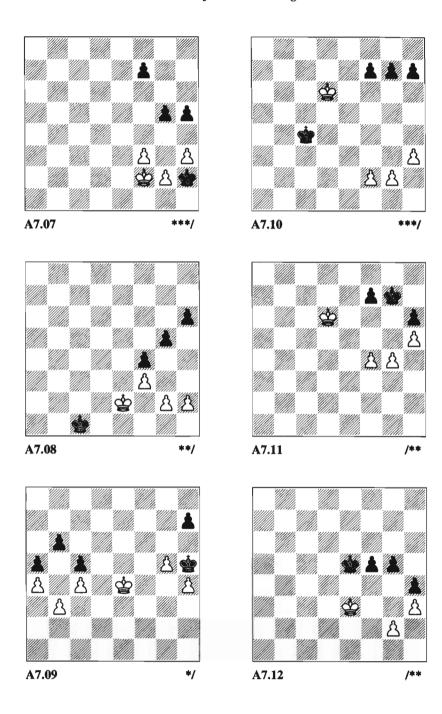
3 \$\d3 \$\footnote{6} 4 \$\d4

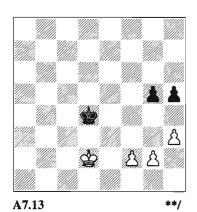
4 \(\psi e 2 \(\psi g 5 \) 5 \(\psi f 1 ! \(\psi h 4 \) 6 \(\psi f 2 ! = . \)

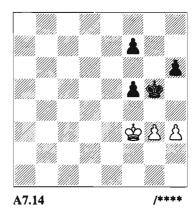
4...\$g6 5 \$e5 \$g5 6 \$e6! =

Chapter 7 Exercises









Solutions to Chapter 7 Exercises

A7.01 Instructive example

White draws easily if he defends the key squares c3, d3, e3, e2 and e1:

1 **d**d3!

Since Black had the opposition, the white king has to retreat in order to get the opposition himself one rank below.

1...**⋭**f4

1...\$f5 2 \$e3! =.

2 \$\d2! \$\f3

 $2... \Leftrightarrow e4.3 \Leftrightarrow e2! \Leftrightarrow d4.4 \Leftrightarrow d2! = ...$

3 **\$**d3! =

A7.02 F.Teed, 1885

When it is White to move, Black escapes as in 7.06 by an exchange:

1 &f6 h5! 2 &xg5 hxg4! 3 hxg4 &g7! draws.

If Black is to play, 1... \$\preceph{8}\$ h8 loses to 2 **\$**g6, so his move is forced:

1...h5!?

The exchange of the last but one pawn fails though due to a surprising counterblow:

2 h4!! \$\psi\$h6 3 \$\psi\$f6! \$\psi\$h7 4 hxg5! hxg4

4...h4 5 \(\Psi f7! +-.

5 \$f7! g3 6 g6+! +-

The reader who likes tactics can look forward to Chapter 9, which is dedicated to this and similar ideas.

A7.03 C.Barry - D.James, Dublin Z 1993

The stalemate idea familiar from Chigorin-Tarrasch also leads to a draw in this position:

1...g5!?

1...**№**e7? 2 **№**e5! +-.

The game actually proceeded 1...h5? 2 h4 \$f73 \$d6! \$f64 \$d7 \$f75 g3! +-1-0 (7.03).

1...\$f7 2 \$\display\$d6 and now:

- a) 2...g5? 3 \$\div e5! \$\div g6 4 g3 g4 (4...\$h5?! 5 \$xf5 g4 6 hxg4#!) 5 hxg4! fxg4 6 \(e6! +-.
- b) 2...\$f6! 3 h4 g5! 4 g3 \$g6! 5 \$e5 g4! = (see 7.08).

2 g3 g4! 3 h4 \(\preceq\$g6! 4 \(\preceq\$e5 \\preceq\$h5! =

A7.04 V.Kupreichik - V.Smyslov, Moscow 1976

You may have asked yourself why this exercise is to be found in this chapter. The c-pawn is hopeless and Black can prevent a penetration on the kingside by ...e4. So a fixed structure is forced, in which the key squares of the e4-pawn play the dominant role:

1 \$g1! \$d7 2 \$f2!

2 e4? \psic6! 3 \psif2 \psixc5! 4 \psic4 e3 \psic4

-+.

2...\$c6 3 \$f3! \$xc5 4 \$g4 \$d5 5 \$\psi f5 e4 6 \psi xg5 \psi c4 7 \psi f5 \psi d3 8 \psi f4! \$\preceq\$e2 9 \$\preceq\$xe4! \$\preceq\$f2 10 \$\preceq\$f4 \$\preceq\$xg2 11 \$\preceq\$g4

3 \$\psie2 \$\psic6 4 \$\psid2! \$\psid5!? 5 \$\psic2!

5 \psic3?? \psixc5! =.

5...\psi\text{xc5 6 \psi\text{c3!}

Now the key squares b4, c4 and d4 can't be defended any longer. Therefore Smyslov tries a pawn sacrifice:

6...g4!? 7 hxg4! \$\d5 8 g5! \$\d5 9 g6! \$6 10 \$d4 \$xg6 11 \$xe4! \$g5 12 \$\psi f3! \$\psi f5 13 e4+! \$\psi g5 14 \$\psi e3!

14 e5? \$\precepf5! 15 e6 h3! 16 e7 h2! 17 e8\ h1\!\! =.

14...**\$**g4 15 e5! +- 1-0

A7.05 P.van der Sterren – Xie Jun, Amsterdam Donner mem 1994

The white king is too far out of play to cause any serious difficulties.

1...g5

1...\$h5!? 2 h3 g5 (2...h6 -+) 3 fxg5 \$\preceq\$xg5! 4 \$\preceq\$b4 h5! (4...f4? 5 h4+! \$\preceq\$g4 6 gxf4! xf4 7 xf3 = 5 xf3 h4! -+.

2 **⇔**b4

2 fxg5+ \$\preceq\$xg5! 3 \$\precep\$b4 \$\precep\$g4! 4 \$\precep\$c4\$ \$\precep\$h3! 5 \$\precep\$d4 \$\precep\$xh2 6 \$\precep\$e5 \$\precep\$xg3 7 \$\precep\$xf5 \$h5! -+.

2...gxf4! 3 gxf4 \$\psi\$h5! 4 \$\psi\$c4 \$\psi\$g4! 5 \$\psi\$d3 \$\psi\$f3!?

5...\$h3? 6 \$d4! =; 5...\$xf4 also wins (5.09).

0-1

Due to 6 \$\psid2\$ (6 \$\psid4\$ \$\psixf4! -+) 6...\$\psig2 7 \$\psie3\$ \$\psixh2 8 \$\psid4\$ \$\psig3 9 \$\psie5\$ \$\psig4 -+.

A7.06 Esser - Davidson, Amsterdam 1910

For a long time this position was supposed to be won, until Réti realized in 1926 that White has enough resources to draw.

1...f4!?

1...g5 2 hxg5! hxg5! 3 \(\pm f1! = ...

2 gxf4!

Now White has timely counterplay. Not 2 exf4? e3! 3 fxe3 \$\dot\delta xe3!\$ and Black wins.

2...\$g43 \$f1!

The game proceeded instead 3 \$\pmeq\$2? h5! 4 \$\pmeq\$f1 (4 f3+ exf3+! 5 \$\pmeq\$f2 g6! -+) 4...\$\pmeq\$xh4! 5 \$\pmeq\$g2 \$\pmeq\$g4! 6 \$\pmeq\$h2 \$\pmeq\$f3 7 \$\pmeq\$g1 h4 0-1 (in view of 8 \$\pmeq\$f1 h3 9 \$\pmeq\$g1 h2+ 10 \$\pmeq\$xh2 \$\pmeq\$xf2! 11 \$\pmeq\$h3 \$\pmeq\$xe3 -+).

3...\\$xh4

3...g6?! 4 \(\pmg2 \) \(\pmxh4! \) (4...h5? 5 f3+! exf3+6 \(\pmf2! \) \(\pmxh4 7 \) \(\pmxf3! \) g5 8 e4! +-) 5 f3! exf3+! 6 \(\pmxf3! \) g5 7 e4 \(\pmh3! \) =.

4 f3! exf3! 5 e4! \$\preceq\$g4 6 e5! \$\preceq\$f5 7 \$\preceq\$f2! =

If White is to move, he draws much more easily by 1 &f1! =.

A7.07 P.Schlosser – Sö.Maus, Budapest 1990

Surprisingly this position is a draw though the black king has penetrated the white pawn-structure. In the game, Philipp Schlosser considered his position to be lost, and resigned!

1 \$f1!

1 f4? g4! 2 hxg4 hxg4! 3 f5 f6 4 \$\displayset{1}\$f1 g3 -+.

1...f5 2 g4!!

2 \(\pm f2? \) g4! 3 hxg4 hxg4!? 4 f4 \(\pm h1! \) -+; see 7.09.

2...hxg4

2...fxg4 3 hxg4! hxg4 4 fxg4! \(\text{\$\text{\$\text{\$}}\$} \) 5 \(\text{\$\text{\$\text{\$\text{\$}}\$}} \) 2! =.

3 fxg4! **★**xh3

3...f4?? 4 h4! +-.

4 gxf5! \$\preceph{4}\$h2! =

Conclusion: with a pawn distribution as above and a white base at g2, the position is nearly always drawn, because no there is no encirclement possible. Even w\$f7,\Delta f4,g4,h4; b\$h7,\Delta f6,g7,h6 out of C.Brumm-M.Ehrke, Germany 1981 is still a draw: 1 g5 hxg5 2 hxg5! fxg5! 3 fxg5! \$\Delta h8!\$ 4 g6 stalemate.

A7.08 F.Zepernick - R.Fantino, Germany U-15 tt 1995

The base g2 easily holds the draw but why not try to win?

1 &d3! &d1 2 g3!

The game continued 2 \$\dispersecond{\text{c}}

a) 3...fxg3? 4 hxg3! \$\$\$\forall f2? (4...h5 =) 5 \text{f4!} +-- was the game.

b) 3...g4! 4 fxg4 f3! and Black is winning.

2...fxg3 3 hxg3! h5 4 f4 gxf4

4...h4 5 gxh4 +-.

5 gxf4! h4 6 \$\dot{e}3! +-

A7.09 V.Korchnoi – T.Petrosian, Odessa Ct (3) 1974

White wins in a very straightforward way:

1 \$\psi f5! \$\psi xh4 2 g6! \text{ hxg6+ 3 \$\psi xg6!}\$\$ \$\psi g4 4 \$\psi f6 \$\psi f4 5 \$\psi e6 \$\psi e4 6 \$\psi d6 \$\psi d4 7 \$\psi c6 \$\psi c3 8 \$\psi xb6! \$\psi xb3 9 \$\psi b5! 1-0\$\$

Depending on the side to which the black king retreats, White captures the according pawn.

A7.10 S.Kalinichev - K.J.Schulz, Cham 1992

Also in this game, which was analysed by Kalinichev in Informator 56, White could have exploited his more active king position:

1 g4!!

The game continued 1 \(\preceq e7?\) f5! (one should memorize this advance of the fpawn; it often saves the defender with such races on one wing) 2 \(\precent{\psi} f7\) (2 \(\precent{\psi} e6\) \$\dd3 3 \dispxf5 \disperse e2! 4 f4 \dispf2! 5 g4 \dispg3! =) 2...\$\d3 3 \dag{xg7} f4! (3...\$\dag{e2}? 4 f4! +-) 4 \$\pixh7 (4 \$\pif6 \$\pie2! 5 f3 \$\pif2 6 \$\pif5 \$\preceq\$xg2! 7 \$\preceq\$xf4 \$\preceq\$xh3! 8 \$\preceq\$g5 \$\preceq\$g3 9 f4 h6+ =) 4...\delta e2! 5 g4 \delta xf2 6 g5 f3 7 g6 $2938 g7 f2 9 g8 + 2xh3! = \frac{1}{2}$

1...\$d3 2 \$e7! f6

2...f5 3 gxf5! \(\preceq\)e4 4 \(\preceq\)f7 \(\preceq\)xf5 5 **\$**xg7! +−.

3 \$f7 \$e2 4 f4! \$f3 5 f5! \$g3 6 \$xg7 +−

A7.11 F.Gheorghiu - H.Ardiansyah, Lucerne OL 1982

In this position Black only appears to be lost:

1...f5!! 2 gxf5

2 \$e7 fxg4! 3 f5! g3 4 f6+! \$h7! 5 f7 g2! 6 f8 g1 = ; 2 g5?? hxg5! 3 fxg5f4! -+.

2...\$f6! 3 \$d7 \$xf5 4 \$e7 \$xf4 5 \$f6 \$e4! 6 \$g6 \$e5! 7 \$xh6 \$f6! 8 \$h7 \$f7! 9 h6 \$f8! 1/2-1/2

A7.12 L.Alburt - G.Kasparov, Daugavpils 1978

As long as one doesn't hurry, a win analogous to 7.17 is possible:

1...**⊈**d5

1...g4? 2 hxg4! fxg4 = (6.02); <math>1...f4+? 2 **⊈**f2 =.

2 \$\d3 \$\c5

2...f4 3 \(\psi \)e2 \(\psi \)e4! 4 \(\psi \)f2 f3! \(-+ \)(7.17) is also possible at once.

3 &c3?!

In addition to ...f4 Black now has the further option ...g4.

3 \$\pmeqe3!? \$\pmeqc4 4 \$\pmeqe2 \$\pmeqd4 (4...\$\pmeqc3?! 5 \$\document{\psi}e3 \document{\psi}c4! -+) 5 \document{\psi}d2 f4 -+.

3...g4 4 🅸 d3 gxh3

4...f4 5 hxg4 f3! -+.

5 gxh3 \$\d5 6 \$\d5 923 \$\d5! 7 \$\d5 f3 f4! 8 \$\frac{1}{2} \frac{1}{2} \frac

Now the triangulation shown in 5.08 wins:

10...\$f5 11 \$g1 \$e5 0-1

Because of $12 \stackrel{\triangle}{=} 11 \stackrel{\triangle}{=} 21 = 1$.

A7.13 J.Timman

Also in this position, given by Timman in Het Groot Analyseboek, White has to be precise during the realization of the extra pawn:

1 g4

- a) 1 **⊈**e2 +−.
- b) 1 g3? \$\div e4 2 \$\div e2 g4! 3 h4 \$\div d4 4\$ f3 gxf3+! 5 xf3! te5! = (4.08).
- c) 1 f3? h4! 2 \perpeceeeeeeee2 \perpeceeeeeee5! 3 \perpeceeeeeeeee 4 f4 (this breaking-up, which is analogous to 7.17 and A7.12, doesn't work here because the pawns are too far advanced) 4...g4! (4...gxf4+? 5 \$\dot{g}\$f3! \$\dot{g}\$5 6 \$\displayseq 64! f3 7 gxf3! +-) 5 hxg4+ \displayseq xg4! 6 **\$e4 \$g3!** =.
 - d) 1 h4?:
- d1) 1...g4? 2 f3 g3 3 \(\psi e2! \(\psi e5 4 \(\psi d3! \) (4 \$\ddotse\$2?! \$\ddotse\$5 5 f4? \$\ddotse\$g4! =) 4...\$\ddotse\$5 5 f4
- d2) 1...gxh4! 2 \(\psi e2 \(\psi e4 \) (2...h3!? 3 $gxh3! ext{ } ext{2} e4! 4 f3 + ext{2} f4! 5 ext{ } ext{2} h4! = also$ works) 3 \(\frac{1}{2} \) ff 1 \(\frac{1}{2} \) ff 4 4 \(\frac{1}{2} \) g1 \(\frac{1}{2} \) ff 5 \(\frac{1}{2} \) h2 \$\psig4! 6 f3+\$\psif4 7 \psih3 \psig5! 8 f4+\$\psif5!! 9 xh4 xf4! = .

1...hxg4

1...h4 2 f3 \$\dispers 6 3 \$\dispers 63! \$\dispers 65 4 f4! +-.

2 hxg4! \$\delta e4 3 \$\delta e2! \$\delta f4 4 f3! \$\delta e5 5 **⊈e3!** +−

The position can't be held with Black to move either: 1...g4 2 hxg4 hxg4 3 g3 +- loses, as does 1...h4 2 \$\div e2\$ \$\div e4\$ 3 g3 hxg3 4 fxg3! + (5.15).

A7.14 M.Taimanov – Zakharov, USSR 1969

The doubled pawns demand a lot of work but they win!

1...h5!?

1...\$\psi6 2 \$\psi8 a \psig7 (2...h5? 3 \$\psi64!\$\$
\$\psi6 4 \ h4! \$\psi6 5 \$\psi5! \$\psi6 5! 6 \$\psixh5 f4!\$
7 gxf4+ \$\psixf4 8 \$\psih6 \$\psig4 9 h5 \$\psih4 10\$\$
\$\psig7! \$\psixh5! 11 \$\psixf7 =) 3 \$\psif4 \$\psi6 6 4 g4\$\$
\$\psig6! (4...fxg4? 5 hxg4! \$\psig6 6 \$\psif3!\$\$
\$\psig5 7 \$\psig3! f6 8 \$\psif3! = (4.14)) 5 gxf5+\$\$
\$\psih5! 6 \$\psi6 5 \$\psig5! 7 f6 \$\psig6 8 h4 h5! -+.\$\$

2 h4 +

2 \$\docume{2}\$ e3 f4+! 3 gxf4+ \$\docume{2}\$ h4! 4 \$\docume{2}\$ f3 \$\docume{2}\$ xh3! 5 f5 f6 -+.

2...**\$**g6! 3 **\$**e3

Alternatively, $3 ext{ } ext{4 } ext{6 } 4 ext{ } ext{6 } 5 ext{6 } 5 ext{ } ext{6 } 6 ext{ } 9 ext{ } 4 ext{ } 8 ext{ } 18 ext{ } 19 ext{ } 19 ext{ } 19 ext{ } 10 e$

3...\$\psi_7! 4 \psi_f3 f6! 5 \psi_f4 \psi_g6! 6 \psi_f3 \psi_f7! 7 \psi_e3 \psi_e7! 8 \psi_f3

8 \$\psid3 \$\psie6 9 \$\psie2 \$\psie5 10 \$\psie3 (10 \$\psif3 f4! 11 g4 hxg4+! 12 \$\psixg4 \$\psie4! -+) \\ 10...f4+! 11 gxf4+ \$\psid5! 12 \$\psid3 f5! 13 \$\psie3 \$\psic4! -+. \end{array}

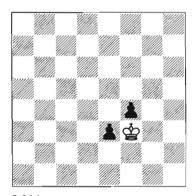
8...\$d6 9 \$f4 \$e6! 10 \$e3 \$e5! 11 \$f3 f4! 12 g4 hxg4+! 13 \$xg4 \$e4! 14 h5 f3! 15 h6 f2! 0-1

8 Passed Pawns

Passed pawns have a special significance in pawn endings because usually the king himself has to deal with them. The restrictive effect of a protected passed pawn and the deflective effect of an outside passed pawn are already familiar to us. Now it's time to enhance our knowledge by examining further aspects:

A) Preliminary Considerations

First we now want to examine the fight between the king and several passed pawns without looking at the attacking king:

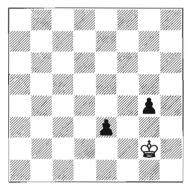


8.01A

The king can easily stop two connected passed pawns, but he can't capture one without leaving the square of the front pawn. Of course he is without a chance if Black is able to support his two pawns with his king. On the other hand though, White will capture both pawns if

Black has to advance the pawns due to zugzwang.

It's a similar case when there is one file between the pawns:



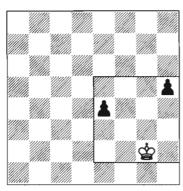
8.01B

By oscillating between g2 and g3, White can easily stop the pawns. But the attempt to capture them fails. This is because in order to capture the pawn that is further back White would have to leave the square of the e-pawn. If he tries to attack the further-advanced pawn from the front, then he will immediately get into zugzwang after 1 \$\Delta f1? g3!\$. If, in the diagram position, Black is forced to advance his pawns, they will again be lost.

A new situation arises when there are two files between the pawns (see following diagram):

Here the pawns can't protect each other, so with White to move they are lost:

1 \$g3! e3 2 \$f3! h4 3 \$xe3! h3 4 \$f3



8.01C

The rule of the common square (draw a line from the back pawn to the file of the front pawn and complete it to a square) might serve as a reminder here: if the common square of two passed pawns has reached the 8th (1st) rank, their promotion can't be prevented.

This is exactly the case with Black to move. One of the pawns queens:

1...h4!

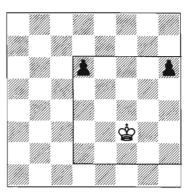
The common square has reached the first rank; that's why the pawns go through on their own.

2 \$f2 h3! 3 \$g3 e3! 4 \$xh3 e2!

If there are three files between the pawns, they can again protect each other. The position at the top of the next column is critical.

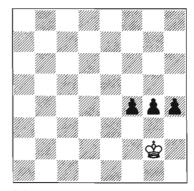
White shouldn't try to capture one of the pawns but has to keep both options by playing 1 \$\Delta f4!\$ and an oscillation between f4, f5 and f6. Black only loses the pawns if he has to push them forward: 1 \$\Delta f4!\$ (1 \$\Delta e4!\$ h5! 2 \$\Delta f4\$ d5!) 1...d5? 2 \$\Delta e5!\$ h5 3 \$\Delta xd5!\$ h4 4 \$\Delta e4!.

If Black has the right to move, one of the pawns will queen: 1...d5 2 \$\frac{1}{2}\$ f4 h5! (the common square of the pawns has reached the first rank) 3 \$\frac{1}{2}\$ f5 h4 4 \$\frac{1}{2}\$ g4 d4! 5 \$\frac{1}{2}\$xh4 d3!.



8.01D

Pawns that are separated by four or more files normally can't be stopped by the king alone. However, we still want to analyse how he deals with three connected passed pawns:



8.01E

Averbakh

Usually three passed pawns are too much for the sole king, but if they are not too far advanced at least he can create a zugzwang position:

1 **⋭**g1

1 \$\precepf1? h3! and the pawns are unstoppable.

1...f3

1...g3 2 \dot{\psi}g2! is a reciprocal zugzwang.

2 쌓f2! h3 3 쌓g3!

If now Black has a spare move (e.g. with the king) the pawns go through on their own; if not, then the pawns are all lost:

3...h2 4 \$\psixh2! f2 5 \$\psig2! g3 6 \$\psif1! g2+ 7 \$\psixg2 f1\$\psi+ 8 \$\psixf1!\$

If it is Black to move, the pawns go through, even without any spare moves:

1...g3!

Zugzwang!

2 \$\psig1 h3 3 \$\psih1 f3 4 \$\psig1 f2+ 5 \$\psif1 h2! 6 \$\psig2 h1\$\psi+ 7 \$\psixh1 f1\$\psi\$#

■ Averbakh discusses this issue of 8.01E far more extensively (442-59).

B) Battle Between Different Passed Pawns

After these somewhat dry preliminary considerations the black king is now back.

It's difficult to formulate any general rules for the following, as what counts is the exact calculation of variations.

B1) Several Passed Pawns on Both Sides

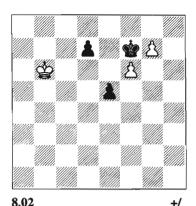
If both sides have connected passed pawns, the game usually ends in a draw, except when they are so far advanced that they can be promoted with the help of the king (see following diagram):

If the king blocks two connected passed pawns, he can't lose a tempo without allowing them to advance. Therefore White has to act carefully in order to block them at the right moment. With some elegant king manoeuvres he finally succeeds:

1 **\$**c5!

1 \$b5? d5! 2 \$c5 d4! 3 \$c4 \$g8! 4 \$d3 \$f7 5 \$e4 \$g8! 6 \$f5 \$f7! =.

1...e4 2 \cd!



N.Kopaev Shakhmaty v SSSR, 1947

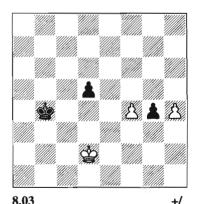
2 \$\preceq\$d4? d5! 3 \$\preceq\$3 \$\preceq\$8! 4 \$\preceq\$f1! 5 \$\preceq\$5 e3! 6 \$\preceq\$h6! e2! 7 \$\preceq\$h7! e1 \$\preceq\$ 8 g8 \$\preceq\$+! \$\preceq\$xf6 9 \$\preceq\$f8+ \$\preceq\$5! 10 \$\preceq\$d8+ =.

2...d6 3 \$\psic3! \Psig8 4 \$\psid4 d5 5 \$\psic83! \$\psif7 6 \$\psif4! \Psig8 7 \Psig5! \$\psih7\$

7...\$\psi f7 8 \$\psi h6! e3 9 \$\psi h7! and White wins

8 \$f5! e3 9 \$e6! e2 10 \$f7! +-

The following example is very concrete and plays in a beautiful way with the theme: check and avoiding check.



A.Khachaturov Shakhmaty v SSSR, 1947 Neither king can stop the opponent's pawns. The resulting race ends in White's favour since he queens with check:

1 f5!

1 h5? g3 2 \$\text{cel}\$ d4 3 h6! d3 4 h7 g2 5 \$\text{cf2}\$ d2 6 h8\$\text{g}\$ g1\$\text{w}+7 \$\text{cel}\$ xg1! d1\$\text{w}+! 8 \$\text{cf2}\$ \$\text{w}\$ d2+! 9 \$\text{cf3}\$ \$\text{w}\$ d3+ 10 \$\text{cel}\$ 4\$\text{w}\$ d1+ 11 \$\text{cel}\$ 5\$\text{w}\$ g1+! 12 \$\text{cel}\$ 5\$\text{w}\$ b1+! 13 \$\text{cel}\$ 6\$\text{w}\$ a2+! = and Black has a perpetual check.

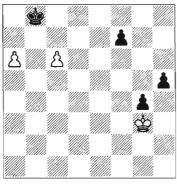
1 \$\pmedel = 1? d4! (1...\$\pmedel = c3? 2 h5! d4 3 h6! \$\pmedel = c2 4 h7 d3 5 h8 \$\pmedel = d2 + 6 \$\pmedel = c2! d1 \$\pmedel = 7\$ \$\pmedel = h7 + \$\pmedel = c3 8 \$\pmedel = e4! \pmedel = 2 f5 (2 h5 g3 3 h6! g2 4 \$\pmedel = c2! d3! \pmedel = 2 ...\$\pmedel = c3 3 f6 d3 4 f7 \$\pmedel = c2! 5 f8 \$\pmedel = d2 + ! 6 \$\pmedel = c2! d1 \$\pmedel = t\$.

1...\$c5 2 h5! g3 3 \$e1!!

3 \$\preceq\$e2? d4! 4 f6 \$\preceq\$d6 5 h6! d3+ 6 \$\preceq\$xd3 g2 =.

3...d4 4 f6! 堂d6 5 h6! g2 6 堂f2! d3 7 f7! 堂e7 8 h7! d2 9 f8豐+! 堂xf8 10 h8豐+! +-

For the following examples, our preliminary considerations again prove to be useful:



8.04 +/- **P.Carrera**, 1617

The black king is in zugzwang, so even his three passed pawns can't help him:

1 **\$64 66** 1...f5 2 **\$**g3 +-. 2 \$g3! f5 3 \$g2

3 \$\displaystyle{4} \displaystyle{4} \di

3...h4 4 \$\dispha h2 f4

4...g3+ 5 \$\psi\$h3! g2 6 \$\psi\$xg2! f4 7 \$\psi\$f2 h3 8 \$\psi\$f3 +-; 4...h3 5 \$\psi\$g3! f4+ 6 \$\psi\$h2! f3 7 \$\psi\$g3! +-.

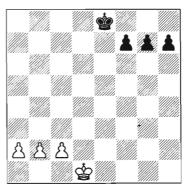
5 ⋭g1!

5 \$g2? g3! 6 \$f3 h3! -+.

5...h3 6 \$h2! f3 7 \$g3! +-

All the pawns are lost due to zugzwang. It remains to say that Black's loss was only due to his fatal immobile king position.

The next example, which is of the same age, is much more difficult. The large number of similar and unclear variations caused at least us great difficulties (quote by Averbakh: "There are a lot more variations but they are all quite simple.").



8.05 +/+ P.Carrera, 1617; Maizelis, 1956

Again it is White who wins by getting his opponent into zugzwang on both wings:

1 **⇔**e2

1 a4 +- is also possible immediately.

1...\$d7 2 \$f3 \$c6 3 a4!

3 \$g4? \$b5 =; 3 c4?? \$c5! 4 b3 h5!

-+

3...h5 4 c4! f5 5 \$\dot{9}23!

5 a5? is premature. Black plays 5...h4 and now:

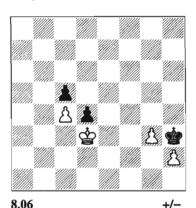
- a) 6 b4? even loses if Black responds correctly:
- a1) 6...g5? (now White wins!) 7 \$\psi 2!! (7 b5+? \$\psi 5 7 8 c5 \$\psi b8! 9 \$\psi g2 f4! -+; 7 a6? \$\psi b6! 8 b5 h3! 9 c5+ \$\psi a7! 10 \$\psi f2 f4! 11 \$\psi g1 f3! -+; 7 \$\psi g2? \$\psi b7! {\text{reciprocal}} {\text{reciprocal}} {\text{zero}} \text{gof} \text{
 - a2) 6...**⊈**b7:
- a21) 7 c5 g5! 8 b5 (8 \$\psi f2 \h3! 9 \$\psi g3 \\
 g4! 10 b5 f4+ 11 \$\psi h2 \$\psi b8 -+; 8 \$\psi g2 \text{ f4!} \\
 -+) 8...\$\psi b8! 9 a6 \$\psi a7! -+.
 - a22) 7 **\$**f2 f4 −+.
 - a23) 7 b5 g5! 8 \(g2 \) f4! -+.
- b) 6 \(\psig2 \) f4 7 \(\psig1! \) \(\psic 5 8 \\ \psig2! \) \(\psic 6! = . \)
- c) 6\$\psif4\$\psib7 (6...\$\psic5 =) 7 c5!\$\psib8! 8\$\psif3! (8 b3? g6! -+) 8...\$\psib7! = (8...g5? 9\$\psig2 f4 10\$\psig1 h3 11\$\psib12! g4 12 b3! \$\psib7 13 b4! +-). As before, neither side is allowed to move the knight's pawn because the flexibility of the double step would be lost.
 - 5...\$b66b4!g57a5+\$a68c5h4+
 - 8...**\$**b5 9 **\$**g2 +--.
 - 9 🕸 g2 🕸 b5
- 9...g4 10 c6 f4 11 b5+ \$\display\$ a7 12 b6+ and wins.

10 \$\psi h3 f4 11 \$\psi g4 \$\psi c6 12 a6! \$\psi c7 13 b5! +-

B2) Protected Passed Pawn vs Two Passed Pawns

The assessment of such examples mainly depends on the place of the square of the protected passed pawn. If the protected passed pawn is already far advanced or the square is far away from the attacker's

passed pawns, then the position is usually drawn. Otherwise there are good winning chances:



8.06 +/-J.Kling and B.Horwitz, 1851

Though the d4-pawn limits the radius of the white king it can't prevent him from leading his connected passed pawns to their target:

1 \$\dispersection 2 \dispersection 4 \di

Notice that White can move freely within the square while Black is stuck at h6 and g5.

6...\$g5 7 \$f3 \$h6 8 \$f4 \$h7 9 g5 \$g7 10 g6

10 h6+? \$g6 11 \$g4 \$h7! =.

10...**\$**h6

10...\$\psi f8 11 \text{ h6 }\psi g8 12 \psi f5 \text{ d3 13 }\psi f6 +--

11 \$\psig4 \$\psig7 12 \$\psig5!

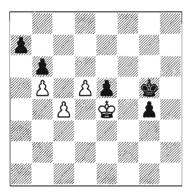
In order to make any progress White has to leave the square.

12...d3 13 h6+! \$\preceq\$g8 14 \$\preceq\$f6!

14 g7? **\$**f7! −+.

14...d2 15 h7+! \$\pm\$h8 16 \$\pm\$f7 d1\$\pm\$ 17 g7+! \$\pm\$xh7 18 g8\$\pm\$+! \$\pm\$h6 19 \$\pm\$g6\$#

■ If in the starting position the d4pawn were at b4 or if one moves the position to the left it would be a draw, as the reader can verify by himself. If there are still more pawns on the board there are also more possibilities. Alekhine had no great problems winning the following position:



8.07 /P.Keres – A.Alekhine
Dresden 1936

Due to the passed d-pawn being protected in an unusual way, there are even two basically very different ways to win. Alekhine won the game after a transition into a winning queen ending by pushing through the g-pawn with the help of the king. Grigoriev later showed that he also had the option of attacking the base of the d5-pawn by playing ...a6 and ...b5.

1...\$f6 2 \$\psi e3 \$\psi f5 3 \$\psi f2 e4 4 \$\psi e2 g3 5 \$\psi e3 \$\psi g4

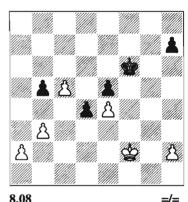
5...\$\perpensure 5 6 \perpensure 2 \perpensure d6 7 \perpensure 2 \perpensure 2 6 7 8 \perpensure 2 2 6 7 9 \perpensure 3 3 5 10 \perpensure 3 6 11 \perpensure 2 2 6 6 14 \perpensure 2 6 15 \perpensure 2 6 7 13 \perpensure 2 2 6 6 14 \perpensure 2 6 15 \perpensure 2 6 7 13 \perpensure 2 6 7 15 \perpens

6 d6 g2! 7 \$f2 \$h3! 8 d7 e3+

8...\$\dot{\phi}h2?! 9 d8\dot{\psi} g1\dot{\psi}+! 10 \dot{\phi}e2 \dot{\psi}g2+ -+.

9 \$63 g1\$1 10 d8\$ \$62+11 \$e4 e2!
12 \$67+\$62 13 \$64+\$61 0-1

It's time to give an example in which the protected passed pawn draws:



08 =/= A.V.Ivanov – T.Mirabile New York Open 1994

The best that White can get is an equal queen ending. To make any progress at all, he must first create passed pawns on the queenside:

1 \$\preceq\$e6 2 \$\preceq\$d3

The creation of a second isolated passed pawn doesn't help either: 2 a4 bxa4! 3 bxa4! \$\perp d7 4 a5 \$\perp c6 5 a6! \$\perp c7 6 \$\perp d3 \$\perp c6 7 \$\perp c4 \$\perp c7 8 \$\perp b57! d3! 9 c6! d2! 10 a7! d1\$\perp ! 11 a8\$\perp ! \$\perp d3 + 12 \$\perp c5! \$\perp d4 + 13 \$\perp b5 \$\perp d3 + =.

2...\$\psi d7 3 b4 \$\psi c6 4 \$\psi c2 h5 5 h4 \$\psi b7 6 \$\psi b3 \$\psi c6 7 a4 bxa4+! 8 \$\psi xa4!

Now the connected passed pawns are on the board but they are not sufficient for a win.

8...\$b7 9 b5 \$\dispbe 8 10 b6 \$\dispbe 57! 11 \$\dispbe 6 12 \$\dispbe 6 4 \$\dispbe 57!\$

Now White has to leave the square of the d-pawn to make any progress. In a practical game one should of course make sure that one doesn't lose because from this moment on everything is quite forced.

13 **空b5!? d3 14 c6+! 空b8 15 空a6!** 15 b7? **空**a7! -+ (15...d2?? 16 **空**b6! d1**豐** 17 c7#!).

15...d2! 16 c7+! 空c8! 17 空a7 d1豐! 18 b7+! 空xc7! 19 b8豐+! 空d7?!

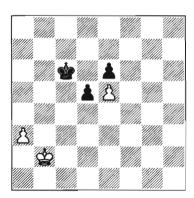
20 wxe5 &c6 21 wc3+ &b5 22 e5 22 wb2+ &c4 23 wa2+ &c5 24 wa5+ &c6 25 wb6+ &d7 26 &b7 wa4 is also a

22...\dvd7+ 23 \dvd8+ \dvd8+ 24 \dvd9b7 \dvd6+ 25 \dvd8

Now the transition back into a pawn ending secures the draw at once.

B3) Protected Passed Pawn vs One Passed Pawn

In the fight versus a single passed pawn, the protected passed pawn nearly always has the advantage. But with reduced material this advantage is only sufficient for a win if its square doesn't allow the opponent's king to defend its own pawn:



8.09 =/= K.Bjerring – S.Conquest Copenhagen 1990

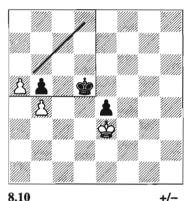
This position is a typical example of a draw:

1 a4 \$b6 2 \$c3 \$c5 3 \$b3! \$d4!? 4 a5! Not 4 \$b4? \$\perp \text{xe5!} 5 \$\perp \text{c5} d4! 6 \$\perp \text{c4!} 9 \text{c4!} 7 a5 d3! 8 a6 d2! 9 a7 d1\$\perp! 10 a8\$\pmu + \$\pm \text{d5+!} -+.

1/2-1/2

In view of 4...\$\psic5! 5 \psia4! \psic6 6 \psib4! \psib7 7 \psib5 \psia7 8 a6.

On the other hand, the strength of a protected passed pawn shouldn't be underestimated:



M.Zinar. 1984

In this case the critical square e5 of the b5-pawn is not in the square of the a5-pawn, so that if Black is to move, he loses at once. Thus it is necessary for White to shift the right to move to Black. This can be managed by the following fine manoeuvres:

1 chr2

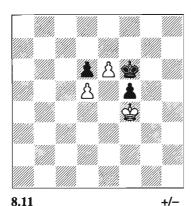
1 全f4? 全d4! 2 a6 e3! 3 全f3 全d3! 4 a7 e2! 5 a8豐 e1豐! 6 豐d5+全c3 7 豐xb5 =.

1...\$c6 2 \$g2 \$d6 3 \$h3

3 \$\preceq\$g3?! \$\preceq\$d5 doesn't help White.

3...\$c6 4 \$g4 \$d5 5 \$g3! \$c6 6 \$f4! \$d5 7 \$e3! +-

The position with white pawns at a4 and b5 and black pawns at a5 and e4 would be a draw: 1 \(\perp f4 \(\priceq d4! \) 2 b6 e3! 3 \(\priceq f3 \(\priceq d3! = \).



N.Grigoriev
Shakhmaty, 1922

Here again the protected passed pawn is enough for a win because the black king is too restricted in his freedom to manoeuvre. But the position would be drawn if one moved it below or to the left edge of the board, and White to move wouldn't be able to win if one moved it one file to the right. Obviously Black to move loses immediately. Against the king at f4 Black thus has to move to f6, and if the king is at h4 he has to move to g6. It follows that \$23\$ must be answered by ...\$27\$. There is no square that corresponds with g2, so Black can't keep the corresponding squares (see Chapter 12).

1 \$\psig3 \$\psig7 2 \$\psig2 \$\psif6\$

2...\$\psig6 3 \psif3 \psif6 (3...\$\psig7 4 \psig3! +-) 4 \psif4! +-.

3 \$h3 \$g7 4 \$g3! \$f6

4...\$\preceq\$6 5 \$\preceq\$h4! \$\preceq\$f6 6 \$\preceq\$h5! and White wins.

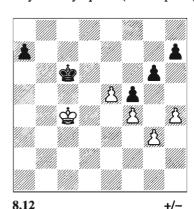
5 **☆**f4!

Now we have the starting position with Black to move and it is over:

5...\$g6 6 e7! \$f7 7 \$xf5! \$xe7 8 \$g6! +-

If there are still more pawns on the board, the protected passed pawn becomes

stronger, because the critical squares are usually also key squares (see Chapter 7).



R.FineBasic Chess Endings, 1941

This position, which was proposed by Fine in order to demonstrate the superiority of a protected passed pawn, is very much deeper than one would think at first sight. In fact White can win but this is not at all easy to manage:

1 \$\d4

For 1 \$\preceq\$b4 \$\preceq\$b6 2 \$\preceq\$a4 a5 3 h5! gxh5 4 e6! \$\preceq\$c6 5 \$\preceq\$xa5! \$\preceq\$d6 6 \$\preceq\$b6 \$\preceq\$xe6 7 \$\preceq\$c6 +-- see the main line.

1...**⊈**c7

1...h5 2 \$\frac{1}{2}\$ \$\frac{

2 \$c5 \$d7 3 \$d5 a6 4 \$c5 \$c7 5 \$c4 \$c8 6 \$b4 \$b8 7 \$a5 \$b7 8 h5! gxh5 9 e6!

A typical procedure: at the right time the protected passed pawn is exchanged for the outside passed pawn in order to penetrate with the king.

9...\$c6 10 \$\psi xa6! \$\psi d6 11 \$\psi b6 \$\psi xe6 12 \$\psi c6 \$\psi f6\$

12...\$f7 13 \$d7 \$f8 14 \$d6! (14 \$e6? \$e8! 15 \$xf5 h4! 16 gxh4 \$e7! = (5.10, 12.07)) 14...\$g7 15 \$e7! \$g6 16

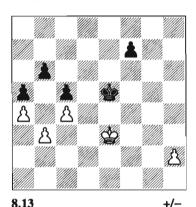
\$\$e6! h6 17 \$\$e5! \$\$g7 18 \$\$xf5! \$\$f7 19 \$\$e5 +−.

13 \$\pside 6!\$ h6 14 \$\pside 5!\$ \$\psi f7\$ 15 \$\pside 5!\$ \$\psige 6\$ 16 \$\pside 6!\$ \$\psige g7\$ 17 \$\psix f5!\$ \$\psi f7\$ 18 \$\pside 65\$ \$\pside 6\$ 19 \$f5 \$\psi f7\$ 20 \$f6!\$ \$\pside 68\$ 21 \$\psi f4\$ (see 7.08) 21...\$\psi f8\$ 22 \$\pside 64\$ \$\psi e8\$ 23 \$\pside 5!\$ \$\psi f8\$ 24 \$\psi e6!\$ \$\psi e8\$ 25 \$f7+!\$ \$\psi f8\$ 26 \$\psi f6!\$ h4 27 \$\pxi k4!\$ h5 28 \$\psi e6\$ +-

Averbakh presents the rich story of 8.12 in more detail.

B4) Outside Passed Pawn

If both sides have a passed pawn, the one with the passed pawn that is further away from the other pawns usually has the advantage. The following instructive example is typical:



M.Euwe
Deutsche Schachzeitung, 1940

White wins due to the outside passed pawn but he has to be precise:

1 h4 **\$**f5

1...f5 2 \$\frac{1}{2}\$f3 +-; 1...f6 2 \$\frac{1}{2}\$f3 \$\frac{1}{2}\$f3 \$\frac{1}{2}\$f5 5 \$\frac{1}{2}\$f4 \$\frac{1}{2}\$f6 6 f6 \$\frac{1}{2}\$f7 \$\frac{1}{2}\$f5 1+-.

2 \$\psi f3! \$\psi e5 3 \$\psi g4! \$\psi e4 4 h5 f5+ 5 \$\psi h3!!

Only this beautiful move, suggested by Euwe in *Das Endspiel*, leads to a win. Black's counterplay in a queen ending should be sufficient for a draw: 5 \$\pi 5?

f4! 6 h6! f3! 7 h7! f2! 8 h8\$\psi! f1\$\psi! 9

\$\psi 68 + \$\phi 44 10 \$\psi 68 + \$\phi 44 (10...\$\phi 65??)

11 \$\psi 65 \psi! 11 \$\psi 65 + \$\phi 64 12 \$\psi 66 + \$\phi 64! 13\$ \$\psi x66 \$\psi 61! 14\$ \$\psi 67 (14 \$\psi 66 + ??)

\$\psi xf6 +! 15 \$\phi xf6 \$\phi 63! 16 \$\phi 65 \$\phi xb3! 17\$ \$\phi 45 \$\phi b4! -+) 14...\$\phi 64 =; 5 \$\phi h4? f4! 6\$

\$\phi 6! f3! 7 \$\phi g3 \$\phi 63! 8 h7! f2! 9 h8\$\psi! f1\$\psi! 10 \$\psi h6 +! \$\phi 64 11 \$\psi 66 + \$\phi 64! 12 \$\psi xb6\$

\$\psi 63 + 13 \$\phi g4 \$\psi 64 + 14 \$\phi g5 \$\psi 65 + 15\$

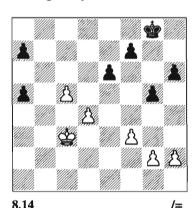
\$\phi 66 \$\psi 68 +! 16 \$\phi 66 \$\psi f8 +! 17 \$\phi g5 \$\psi 67 + =; 5 \$\phi g3? \$\phi 63! 6 h6 f4 +! 7 \$\phi g4 f3! 8\$

\$h7! f2! 9 h8\$\psi! f1\$\psi! 10 \$\psi h6 + \$\phi 44 11\$

\$\psi xb6 \$\psi 62 +! = leads to perpetual check, analogous to 5 \$\phi h4.\$

5...\$e5 6 \$g3 \$e6 7 \$f4 \$f6 8 h6! \$g6 9 h7 \$xh7 10 \$xf5! +-

Of course, an outside passed pawn can be outweighed by other factors:



N.Nikčević – I.Farago Rome 1990

Though Black has the outside passed pawns on the a-file and he can undermine the c5-pawn by ...e6-e5 White can still keep the balance due to his more active king:

1...\$f8! 2 \$c4 a6

 8 \$\precep\$68! =) 6 dxe5! \$\precep\$xc5 7 \$\precep\$xa7! \$\precep\$d4 8 \$\precep\$b6 \$\precep\$xc5 9 \$\precep\$c5 h5 10 \$\precep\$c4 h4 11 \$\precep\$d3 \$\precep\$f4 12 \$\precep\$e2! = (see 7.05 and A7.07).

3 \$\psi b 3 \$\psi e 7 4 \$\psi a 4 \$\psi d 7 5 \$\psi x a 5 \$\psi c 6 6 \$\psi x a 6 e 5 7 dx e 5\$

7 \$\preceq\$a5 exd4 8 \$\preceq\$b4! \$\preceq\$d5 9 c6 \$\preceq\$xc6 10 \$\preceq\$c4! =.

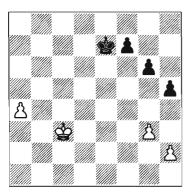
7...h5 8 \$\pmu a7 \pmu xc5 9 \pmu b7 \pmu d5 10 \$\pmu c7 \pmu xe5 11 \pmu d7 f5 12 \pmu e7 h4 13 h3

13 g3 hxg3 (13...h3 14 \$\psi f7! f4 15 g4! \$\psi d4 16 \$\psi f6 \$\psi e3 17 \$\psi xg5! \$\psi xf3! 18 \$\psi h4 =) 14 hxg3! f4 15 g4! \$\psi d4 16 \$\psi f6! \$\psi e3 17 \$\psi xg5! \$\psi xf3! 18 \$\psi h5! =.

13...\$f4 14 \$f6 g4 15 fxg4 fxg4! 16 hxg4! \$xg4! 17 \$\pm\$g6! \$\frac{1}{2}\$-\frac{1}{2}\$

C) Passed Pawn vs Candidate

Here the ideas basically can be compared to the ones we have just dealt with, but the majority allows new options for the defence, e.g. the exchange of all pawns. Normally though these resources are not sufficient:



8.15 +/
R.Fischer - B.Larsen

Denver Ct (5) 1971

The black king himself has to deal with the outside passed pawn and is

therefore deflected from the defence of his own kingside pawns. White only has to avoid Black using his majority to exchange all the pawns:

1 \$\dd \$\dd 2 a5 f6 3 a6 \$\dd c6 4 a7

4 h4 \$\Delta b6 5 \$\Delta d5! \$\Delta xa6 6 \$\Delta e6! g5 7\$ \$\Delta xf6! gxh4 8 gxh4! \$\Delta b6 9 \$\Delta g5 \$\Delta c6 10\$ \$\Delta xh5! \$\Delta d7 11 \$\Delta g6 \$\Delta e7 12 \$\Delta g7! +-.\$

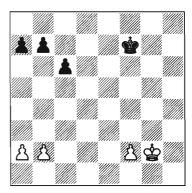
4...\$b7 5 \$d5 h4!? 6 \$e6

Or 6 gxh4 \$\psixa7 7 \$\psic6!\$ f5 8 h5! f4 (8...gxh5 9 \$\psixf5!\$\psib6 10 \$\psig5!\$\psic6 11 \$\psixh5!\$\psid7 12 \$\psig6\$ \$\psic6 7 13 \$\psig7! +--) 9 hxg6! f3 10 g7! f2 11 g8\$\psi!\$ f1\$\psi 12\$\psif7+! winning.

1-0

In view of 6...f5 7 \$\precepter f6 \text{ hxg3 8 hxg3} and wins.

What kind of traps lurk in such positions is shown in the following grand-master game:



8.16 =/= M.Gurevich - M.Krasenkow Jakarta 1996

Black can hold the position if he acts very precisely. Usually it proves to be a good idea to push forward the a-pawn in order to gain space on the queenside and to bring about pawn exchanges. It also has to be noticed that all White's pawns still have the option of a double step. This

is important when zugzwang plays a role and it also causes Black to be careful with his b-pawn.

1 &f3 &f6 2 &e4

2 \$\pi 64 a5!? 3 a4 (3 b3 b5 4 \$\pi e4 \$\pi e6! 5 \$\pi d4 \$\pi d6! 6 a4 c5+ 7 \$\pi c3 bxa4! 8 bxa4! \$\pi d5 =) 3...b5 4 b3 bxa4 5 bxa4! c5 6 \$\pi e4 \$\pi e6! 7 f3 \$\pi d6! = .

2...\$e6 3 \$f4 \$f6

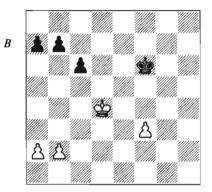
3...a5!? (Krasenkow in *CBM 57*) 4 \$\pig5 a4! 5 f4 a3 6 bxa3 = (6 b3?! c5 7 \$\pig6 \pig6 \pig2 1! 8 \pig7 \pig6! 9 \pig6! =).

4 \$e4 \$e6 5 f3 \$f6?!

5...a5 = ...

6 **∲**f4

Krasenkow's suggestion $6 \, \text{$\circ} d4!? (D)$ is an interesting alternative.



Then Black is once again on the brink of disaster but he can just manage to survive:

a) 6...\$f5? 7 \$c5!:

a1) 7...\$\pec\$e6 8 f4! \$\pec\$d7 9 f5! \$\pec\$e7 10 a4! (10 f6+? \$\pec\$d7! 11 f7 b6+! 12 \$\pec\$d4! \$\pec\$e7! 13 \$\pec\$e5! \$\pec\$xf7 14 \$\pec\$d6! c5! =) 10...\$\pec\$d7 11 a5! \$\pec\$c7 12 \$\pec\$d4! \$\pec\$d6 13 \$\pec\$e4! c5 14 \$\pec\$f4! b5 15 axb6! (15 \$\pec\$g5? \$\pec\$e7! 16 \$\pec\$g6 \$\pec\$f8! 17 \$\pec\$f6 c4 18 \$\pec\$e5! a6 =) 15...axb6 16 \$\pec\$g5! \$\pec\$e7 17 \$\pec\$g6! \$\pec\$f8 18 \$\pec\$f6! +-.

a2) 7...\$f4:

a21) 8 a4? \$\prec\$xf3! 9 \$\prec\$d6 (9 a5 \$\prec\$e4 10 \$\prec\$d6 \$\prec\$d4 11 \$\prec\$c7 b6! 12 a6 \$\prec\$d5 13 \$\prec\$b7

\$\psid6! 14 \psixa7 \psic7! =) 9...\$\psic4! 10 \psic7 b5! 11 a5 b4 =.

a22) 8 \$\d6! \dxf3 9 \dxf3 +-.

- b) 6...b6? 7 **\$**e4! +-.
- c) 6...\$\phie6! 7 \pmc5 (7 f4 \pmc)f5! 8 \pmc5\$
 \$\pmxf4! 9 \pmd6 \pmc4 e4 10 \pmc7 \pmd3 11 \pmc>b7
 c5 =) and now:
- c1) 7...\$\psi_65? 8 a4! \$\psi_66 9 f4! \$\psi_d7 10\$ f5! b6+ 11 \$\psi_d4! \$\psi_d6 12 \$\psi_64! c5 (12...a5 13 \$\psi_d4! +-) 13 \$\psi_f4! a6 14 \$\psi_g5! \$\psi_e7 15 \$\psi_g6! \$\psi_f8 16 \$\psi_f6! +-.\$
- c2) 7...\$\pm\$d7! 8 f4 b6+! 9 \$\pm\$d4 \$\pm\$d6! (9...\$\pm\$e6? 10 \$\pm\$e4! +--) and then:
- c21) 10 \dot{e}3 \dot{d}5 11 \dot{e}f3 c5! 12 \dot{e}g4 b5 13 f5 c4 =.

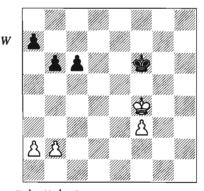
c22) 10 f5 c5+! 11 \$\disperseq\$ e4 b5! 12 a3 b4 = (12...a5? 13 f6! +--).

c23) 10 \$e4 \$e6! 11 f5+\$ef6! 12 \$ef4 a5! 13 \$e4 a4! 14 a3 c5! 15 \$ed5 \$exf5! 16 \$e6 \$e4 17 \$exb6 \$ed5 18 \$eb5 \$ed4! 19 \$exa4 \$ec4! 20 b4 \$ed5! 21 b5 c4! 22 \$eb4 \$ed4! 23 b6 c3! 24 b7 c2! 25 b8 \$ec1\$et !=.

6...b6? (D)

Under pressure, Krasenkow makes a serious mistake. Correct is 6...a5 7 **№**e4:

- a) 7...\$\perp 68 a4 b5! = (8...\$\perp 66? 9 f4 \$\perp 66 10 f5+\$\perp f6 11 \$\perp 44! \$\perp xf5 12 \$\perp c5!\$\$\$ \$\perp 65 13 \$\perp b6! \$\perp d6 14 \$\perp xb7!\$\$ winning (7.08A)).
 - b) 7...a4 =.



7 \$e4! \$e6

7...a5 8 a4! \(e6 9 \) f4! +-.

8 f4! a5

8...a6 9 f5+ \$f6 10 a3! (10 \$f4? c5 11 \$e4 b5 =) 10...a5 11 a4! +-; 8...c5 9 f5+ \$f6 10 a3! c4 (10...b5 11 \$d5! b4 12 a4! +-) 11 a4 a6 12 \$d5! \$xf5 13 \$c6! +- (Ftačnik in CBM 56).

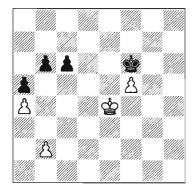
9.65 +

9 a4 b5 (9...\$\psi 6 10 f5! +-) 10 axb5 cxb5 11 f5+! (11 \$\psi d4? \$\psi 6! 12 f5 a4! 13 \$\psi c3 \$\psi c5! 14 f6 b4+! =) 11...\$\psi 6 12 f6! a4 (12...\$\psi e6 13 \$\psi d4! +-) 13 \$\psi f5! b4 14 \$\psi g6! +-.

9...**⊈**d6

В

9... \$\precepter for 10 a4! (D) is reciprocal zugzwang since Black has created a barrier that doesn't allow the white king to penetrate but he has no moves left.



Since the white pieces have also taken ideal positions (b2-b3 would make the exchange of the queenside easier), White to move couldn't win. One should remind oneself of this position during the analysis. 10...b5 (10...\$\psi f7 11 \$\psi e5!\$ \$\psi e7 12 \$f6+!\$ \$\psi d7 13 \$\psi f5 \$\psi e8 14 \$\psi e6 +-) 11 \$axb5!\$ cxb5 12 \$\psi d4 \$\psi xf5 13 \$\psi c5!\$ and White wins.

10 \$f4?

Gurevich returns the favour. Instead 10 a4! b5 11 axb5 cxb5 12 f6! a4 13 \$\displaystyle{15}\$! b4 14 \$\displaystyle{16}\$! +- would have won.

10...a4 11 &g5 a3 12 bxa3

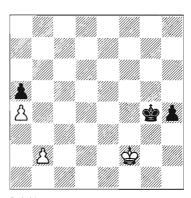
12 b3 doesn't win either, as Hecht proved in *CBM 56*: 12... 全e7! 13 全g6 全f8! 14 全f6 c5! 15 全e5 b5! 16 全d5 c4! 17 bxc4! b4!? 18 c5! b3! 19 c6! bxa2 20 c7! a1 21 c8 +! =.

12...\$e7! 13 \$g6 \$f8! 14 \$f6 c5 15 \$e5 \$f7

15...b5 16 a4 bxa4! =.

16 a4 \$e7!? 17 a5 bxa5! 18 a4 \$f7 19 \$d5 \$f6! 20 \$xc5 \$xf5! 21 \$b6 \$e6! 22 \$xa5 \$d7! 23 \$b6 \$c8! \$\frac{1}{2}\$-\frac{1}{2}\$

If the defender has a backward pawn, it can easily prove his undoing because it has to move when the attacking pawn reaches the 7th rank supported by its king.



8.16A =/+ A.Aleksandrov - M.Krasenkow New York 1997

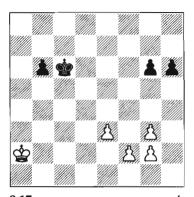
1...h3!

Not 1...\$\document{\pmathbb{c}} f4? 2 b4! axb4! 3 a5! =. **0-1**

Without the troublesome b2-pawn, White could have drawn by 2 \$\mathref{c}g1!\$. As it is, it loses as follows: 2 \$\mathref{c}g1\$ \$\mathref{c}g3!\$ 3 \$\mathref{c}h1\$ h2! 4 b3 \$\mathref{c}h3!\$ (this zugzwang idea should be memorized well) 5 b4 axb4! 6 a5 b3 7 a6 b2 8 a7 b1\$\mathref{w}#\$.

Concerning the material distribution, our final example doesn't quite belong in

this context, but here again the accurate use of the pawn majority is decisive:



8.17 Ye Rongguang – Xie Jun Kuala Lumpur 1994

The doubled pawns make the creation of two connected passed pawns more difficult. White can only win by allowing the b-pawn to promote:

1 **∲**b3

1 g4 +-.

1....⊈c5

1...h5!? 2 \$\pic4\$ b5+ 3 \$\pid4\$ \$\pid6\$ 4 e4 \$\pic6\$ 5 f3 \$\pib6\$ 6 e5 \$\pic6\$ 6 7 f4 \$\pib6\$ 8 \$\pid5\$ +-.

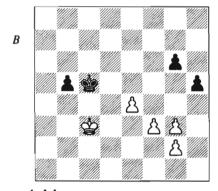
2 e4

2 g4!? \$\Delta\$5 (2...h5 3 gxh5 gxh5 4 f4 +-; 2...g5 3 f4 gxf4 4 exf4! \$\Delta\$5 5 \$\Delta\$6 g3 +--) 3 \$\Delta\$6 4 f4 and White wins.

2...h5!? 3 \$\preceq\$c3 b5 4 f3 (D)

The game continued instead 4 f4? \$\preceqce{c6!} (4...\preceqd6? 5 \preceqd4! \preceqce 6 e5! +-;

4...b4+? 5 \displad3! \displad5 6 \displad4! \displada 4 7 f5 gxf5 8 exf5! b3 9 \(\psi c3! \) \(\psi a3 10 \) f6! b2 11 f7! b1 12 f8 1+! +-) 5 14 46! 6 e5+ \$c6! 7 \$e3 \$d5 8 \$d3 b4 9 \$d2 \$c6 10 \$e2 \$c5 11 \$e3 \$d5 12 \$d3 \$\psic5! 13 \$\psic2 \$\psic6 14 \$\psib3 \$\psib5 15 \$\psib2\$ \$\pmu\$b6 16 \$\pmu\$b3 \$\pmu\$b5 17 g4 (17 e6 \$\pmu\$c6! 18 \$\psixb4 \psid6! 19 \psic4 \psixe6! 20 \psid4 \psif5 21 \$\psie e3 \$\psig e4 22 \$\psi f2 \text{ h4 23 gxh4 }\psi xf4! 24 g3+ \(\psig4! \) 25 \(\psig2 \) g5! =) 17...hxg4! 18 g3 \$c5! 19 \$a4 \$d5 (19...\$c4 20 e6 b3! 21 e7 b2! 22 e8\dagged b1\dagged! 23 \dagged c8+ \$\dd 24 \dd xg4 \dd e3 =) 20 \dd xb4 g5! $\frac{1}{2}$ - $\frac{1}{2}$, in view of 21 fxg5 (21 2c3? gxf4! 22 gxf4 g3! -+) 21...\$xe5! 22 \$c5 \$f5 $23 \stackrel{\triangle}{=} d5 \stackrel{\triangle}{=} xg5 = .$



4...b4+

4...g5 5 f4 h4 6 fxg5 +--.

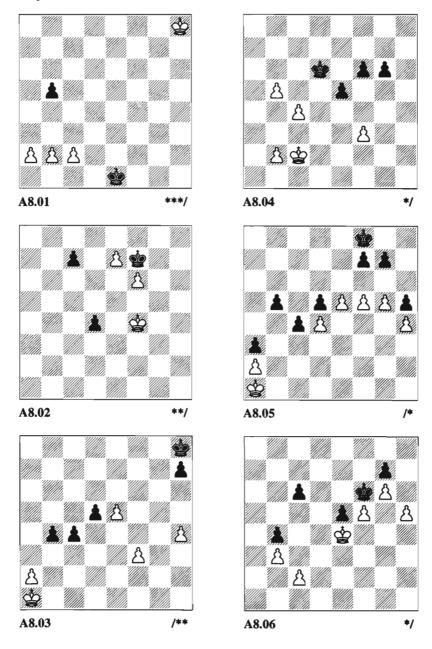
5 \$\d3 \$\b5 6 \$\d4! \$\da4 7 e5! b3

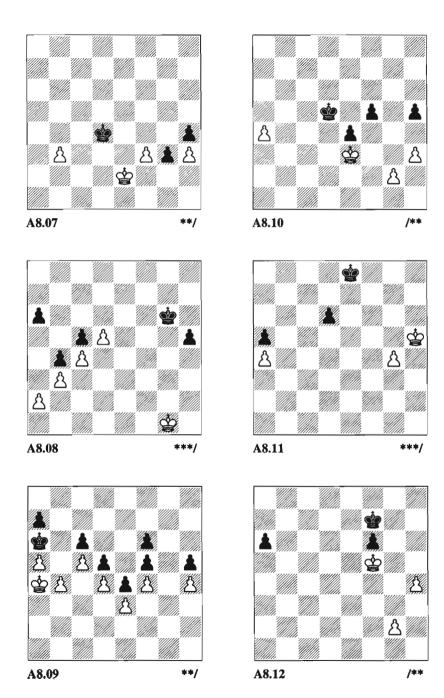
7...**\$**b5 8 **\$**d5 +−.

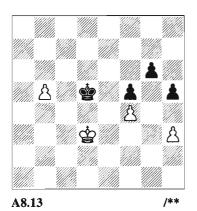
8 e6! b2 9 e7! b1營 10 e8營+! 全a3 11 營a8+ 全b2 12 營b7+ 全c1 13 營xb1+!

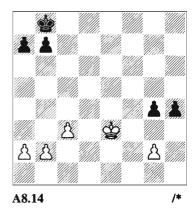
(Hecht in CBM 41)

Chapter 8 Exercises









Solutions to Chapter 8 Exercises

A8.01 L.Ponce Sala, 1956

This exercise shows again how to proceed with the creation of a passed pawn: first the candidate should advance, then a passed pawn is created, which goes through. But this situation is not typical, in view of the unusual positions of the kings (but then it is a study).

1 a3!

1 b3?? b4! -+; 1 c3? \$\d2! =; 1 c4? bxc4! 2 a4 \$\d2 3 a5 \$\d2 4 a6 \$\d2 5 a7 c3! 6 a8\$\dagger c2! = (3.08).

1...**⊈d2 2 b3! ⊈xc2**

2...**\$**c3 3 **\$**g7 +−.

3 a4! b4 4 a5! \$\text{\$\psi\$xb3 5 a6! \$\psi\$c2 6 a7!} b3 7 a8\$\psi\$! +-

A8.02 Behting, Rigaer Tageblatt, 1894

It is Black's undoing that he is not able to lose a tempo:

1 \place{1}{2} [3!

1 \$\psie4? c5! 2 \$\psid3 \$\psie8! 3 \$\psic4 \$\psif7 4\$ \$\psixc5?? d3! -+.

1...c6 2 \$f4! c5 3 \$e4! \$e8 4 \$d5 \$d7 5 \$c4! \$e8 6 \$xc5! d3 7 \$d6! d2 8 \$e6! d1数 9 f7#!

A8.03 M.Taimanov – M.Botvinnik, USSR Ch (Moscow) 1952

The three far-advanced black pawns win the race as expected:

1...d4! 2 e6

2 \psib2 d3! 3 \psic1 b3! -+.

2... \$\pmg7 3 f4 \$\pmg\$f6 4 f5 d3 5 \$\pmg\$b1 h5 0-1

In view of 6 \$\pi b2 \$\pi e7 7 \$\pi c1 b3! 8 axb3 (8 a4 c3 9 a5 b2+ 10 \$\pi b1 d2 11 \$\pi c2 b1\$\pi + -+) 8...cxb3! 9 \$\pi b2 d2! and Black wins.

A8.04 N.de Firmian - Zso.Polgar, Bermuda 1995

Passed pawns have to run!

1 b4 f5 2 c5+ 쓯d5 3 b6 쓯c6 4 b5+ 쓯b7 5 쓯d3 g5 6 쓯e3

Now Black is in zugzwang and must either allow the advance of the white pawns or weaken her own pawns.

6...g4

6...\$\documes 8 7 c6 \$\documes b8 8 b7 g4 9 fxg4 fxg4 10 b6 g3 11 \$\documes f3 e4 + 12 \$\documes xg3 e3 13 \$\documes f3 e2 14 c7+! \$\documes xb7 15 \$\documes xe2 and White wins

7 fxg4 fxg4 8 \$\div e4 \div b8 9 c6 \$\div c8 10 \\ b7+ \$\div c7 11 b6+ \$\div b8 12 \$\div e3 +-\$

White only has to be careful not to stalemate Black.

1.0

A8.05 V.Savon - I.Novikov, Belgorod 1991

The only thing Black has to worry about is to open up a way for the king to the passed pawns on the queenside:

1...b4 2 \$\precept{\p

5 f6+ gxf6 6 exf6+ \$\precede{\

5...g6 6 f6+ \$\psie6 7 \$\psic1 a2 8 \$\psib2 \$\psif5\$
9 \$\psia1 \$\psie4 0-1\$

Savon resigned because of 10 \$\disp2 b2\$
\$\dispd3 11 e6 a1\$\dispm+ 12 \$\dispxa1 \$\dispc2!\$ and Black wins.

A8.06 A.Khalifman – V.Belikov, Russian Cht (Podolsk) 1992

1 h6!

The connected passed pawns will now decide the day in favour of White:

1...gxh6 2 \$\dispress{2}\$ h5

2...\$g7 3 \$g4 \$f6 4 \$h5 \$g7 5 f6+ \$xf6 6 \$xh6! +-.

3 **\$**g3 c5

3...\$\doldow{\

4 \$h4 e4 5 \$g3! +- 1-0

The black passed pawns fall.

A8.07 M.Rauch

1 \$f1! \$d3 2 \$g2

2 \$\psi e1? \$\psi e3 3 \$\psi f1! \$\psi xf3! =.

2...\$d4 3 \$g1 \$d3

3...\$e3 4 b4! \$\dd 5 f4! +-.

4 \$\psi 1! \$\psi d4 5 \$\psi e2! \$\psi d5 6 \$\psi e3! \$\psi c6\$
7 \$f4! \$\psi d5 8 b4 \$\psi c4 9 \$f5! +-

The pawns can't be stopped (8.01D).

A8.08 Y.Nikolaevsky – M.Taimanov, USSR Ch (Tbilisi) 1966/7

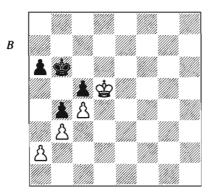
With the knowledge of Chapter 6 you could work out that White can't win because Black has the familiar stalemate refuge at a5.

1 🕸 f2

1 \$\psig2 \$\psig5 2 \$\psig3 \$\psif5!\$ (after 2...h4+? 3 \$\psighshappa h3 +— Black is in zugzwang and thus either has to leave the square of the dpawn, give up the h-pawn or brick in his own stalemate refuge by playing 3...a5) 3 \$\psif3 \$\psie5 =.\$

1...\$f62\$g3\$g53\$h3\$f54\$h4\$g6!5d6

Otherwise White can't make progress. 5...\$66 6 \$\preceq\$xh5 \$\preceq\$e6 7 \$\preceq\$5\$ \$\preceq\$xd6 8 \$\preceq\$f5 \$\preceq\$c6 9 \$\preceq\$e5 \$\preceq\$b6 10 \$\preceq\$d5 (D)



A8.09 Em.Lasker, 1921

Though White has an extra pawn, he has to be careful to avoid the position becoming completely closed. Thus he first has to sacrifice his a-pawn to get a protected passed pawn at c5 by playing b5. Its exchange for the black a-pawn will allow the white king to penetrate successfully.

1 **\$**b3!

After 1 b5+? cxb5+! (1...\$b7? 2 bxc6+\$xc6 3 a6! +-) 2 \$\pib4!\$ \$\pib7\$ 3 \$\pixb5\$ a6+! 4 \$\pib4\$ \$\pic6\$ = White can't make any progress (compare to 6.09 and 6.10).

1...\$b5 2 a6! \$\prec{1}{2}\$xa6 3 \$\prec{1}{2}\$a4! \$\prec{1}{2}\$b7 4 b5! a6

4...cxb5+5 \$\psixb5! \$\psic 7 6 \$\psia6! \$\psi b8 7 \\ c6 \$\psi a8 8 \$\psi b5 \$\psi b8 9 \$\psi c5 \$\psi c7 10 \$\psi xd5! \\ +-.

5 bxc6+! \$\Pixc6 6 \$\Pia5 \$\Pib7 7 c6+! \$\Pic7 8 \$\Pixa6! \$\Pixc6 9 \$\Pia5! +-

White has captured a key square of the d5-pawn.

A8.10 Kushnir – Sulim, *USSR 1976*

An outside passed pawn or a candidate doesn't have to be advantageous (though most of the time this is of course the case). This example, which is given by Lothar Nicolaiczuk in his book, is thought to be a warning. White even loses because Black can just go through with his central passed pawn:

1...f4+!!

1...\$\pic5? 2 g4 fxg4 3 hxg4 hxg4! 4
\$\pixe4 =.

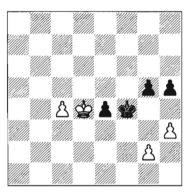
2 2xf4

2 \$\psid 2 h4 3 \$\psic 3 \$\psic 5 4 a5 \$\psib 5 5 \$\psid 4 e3! 6 \$\psid 3 \$\psi xa5 7 g4 (7 \$\psic e2 \$\psib 4 8 g3 hxg3! 9 \$\psi f3 \$\psic 3 -+) 7...hxg3! -+.

2...\$\d4! 3 a5 e3! 4 a6

4 \$\psi f3 \$\psi d3! 5 a6 e2! 6 a7 e1\$\psi! 7 a8\$\psi\$\exists

■ Compare with the following:



A8.10A /= M.Andres – J.Vilela Havana 1992

1...g4! 2 hxg4 h4!! 3 g5! e3 4 \$d3 h3! 5 gxh3! \$f3! 6 g6! e2! 7 g7! e1豐! 8 g8豐! ₩e3+ 9 \$c2 \text{\text{\text{\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$}\text{\$\exitex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitit{\$\text{\$\text{

10 b3 b6+! = (10... e3+? 11 a4!\(\para a7+ 12 \ b5! +-).

10... \(\delta e 3 + ! \) 11 \(\delta b 2 \delta f 2 + 12 \delta a 3 \delta a 7 + ! \) 13 \(\delta b 3 \delta b 6 + ! \delta - \delta \)

The white king cannot escape from the checks (Andres in Inf 56, Ending 2).

A8.11 R.Réti, Berliner Tageblatt, 1923

If you noticed that the position w\(\preceq g6;\) b\(\preceq e7\) is one of reciprocal zugzwang, then the solution became obvious:

1 **⋭**g5!

1 \$\precepge 6? \$\precepe 6?! 2 \$\precep 5 \$\precep 67! 3 \$\precepe 64 \$\precep 65\$ \$\precep 65! (4...\$\precepe 67? 5 \$\precep 66 \$\precep 65\$ \$\precep 55\$ \$\precep 57\$ \$\precep 65\$ \$\precep 65\$ \$\precep 55\$ \$\precep 55\$ \$\precep 65\$ \$\precep 65\$ \$\precep 55\$ \$\precep 55\$ \$\precep 65\$ \$\precep 65\$ \$\precep 55\$ \$\precep 65\$ \$\pre

1...**⇔**e7

1...\$f7 2 \$f5! \$e7 (2...d5 3 \$e5! +-) 3 \$g6! +-.

2 \$g6! d5 3 \$f5! \$d6 4 g5! d4 5 \$e4! \$e6 6 \$xd4! +-

A8.12 A.Nimzowitsch – S.Tarrasch, San Sebastian 1911

This exercise again shows that connected pawns only obtain their strength by protecting each other:

1...a5! 2 de4 f5+!

Not 2...a4? 3 \$\ddot d4 \text{ f5 4 g3! and White draws.}

0-1

Nimzowitsch resigned because of 3 dd f4! -+.

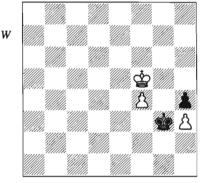
A8.13 R.Hübner - A.Shirov, Bundesliga 1992/3

Before Black's king can deal with the b-pawn, he must improve the situation on the kingside so that his counter-attack comes at the right time:

1...h4!!

1...2c5? is a mistake as White wins by 2 h4! (2 b6? 2xb6! 3 2d4 h4 =) 2...2xb5 3 2d4! +-.

2 b6 \$c6! 3 \$d4 \$xb6! 4 \$e5 \$c5 5 \$f6! \$d4 6 \$xg6 \$e4! 7 \$g5! \$f3! 8 \$xf5! \$g3! (D)



9 **\$e4**

After 9 \$\disp_{95}\$ \$\disp_{xh3}! 10 f5 \$\disp_{93}! 11 f6 h3! 12 f7 h2! 13 f8\$\disp_{h1}\$\disp_{!} = White can't exploit the restricted position of the black king either.

9...\$xh3! 10 \$f3 \$h2 11 f5 h3! 12 \$f2 \$h1 13 f6 h2! 14 f7 \(\frac{1}{2}\)-\(\frac{1}{2}\)

A8.14 W.Gscheidlen – H.J.Hecht, Bundesliga 1983/4

The white king is so far deflected from the queenside by the black h-pawn that Black is able to penetrate decisively there. This typical example shouldn't have been too difficult.

1...\$c7 2 \$f4 h3! 3 gxh3 gxh3! 4 \$g3 \$c6 5 \$xh3 \$d5!

5...\$\perpceces\$c5? 6 b3 \$\perpceces\$d5 7 \$\perpcecep\$g3 \$\perpcecep\$e4 8 \$\perpcecep\$f2 \$\perpcecep\$d3 9 c4! a5 10 \$\perpcecep\$e1 \$\perpcecep\$c2 11 c5 \$\perpcecep\$b2 12 \$\perpcecep\$d2 \$\perpcecep\$xa2 13 \$\perpcecep\$c2 =.

6 b3

6 \$\psig3 \$\pme4! (6...\$\pme4c4? 7 \$\pme4f4! \$\pmed3! 8\$\$\pme5 \$\pmec2 9 \$\pmed6 \$\pmexb2 10 c4 =) 7 c4 \$\pmed d3\$ 8 \$\pmec5 \$\pmec2 ! 9 b3 \$\pmed b2! 10 b4 \$\pmec3 11 a3\$\$\pmexc4 -+.\$

6...\$e47 c4 \$d48 \$g4 \$c3

8...a5 9 \$\psi f5 \$\psi c3! 10 \$\psi e4 \$\psi b2! 11\$ \$\psi d3 \$\psi xa2 12 \$\psi c2 b6! 13 \$\psi c3 \$\psi b1! 14 c5\$ \$\psi xc5! 15 \$\psi c4 \$\psi c2 16 \$\psi xc5 \$\psi xb3! -+.\$

9 **\$**f5 0-1

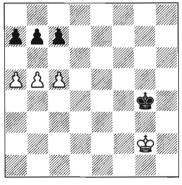
In view of 9...\$b2 10 b4 \$c3 11 a3 \$xc4 -+.

9 Breakthrough

The breakthrough (one side sacrifices one or several pawns in order to create a powerful passed pawn) is a very important tactical idea in pawn endings. Since the opponent often gets one or more passed pawns as well, there are often sharp variations in which every tempo counts. In order to be saved from surprises, the following features of the position should ring your inner alarm bells or wake up your killer instinct: far-advanced (still flexible) pawn-structures or a space advantage on one wing; weaknesses in the pawn-structure (for example, doubled pawns); a pawn majority; a king being out of the squares of the potential passed pawns.

A) Far-Advanced Pawns

Breakthrough ideas have been known for a long time and so we shall start with a classic:



9.01 +/+ C.Cozio, 1766 The white pawns have crossed the middle of the board and the black king is not in their square – two important signs for a possible breakthrough.

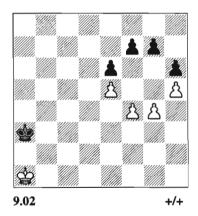
1 b6! cxb6

1...axb6 2 c6! bxc6 3 a6! +-.

2 a6! bxa6 3 c6! +-

If Black is to move, he wins by stepping into the square of the c-pawn: 1....\$\dot{2}f5! 2 b6 cxb6! 3 axb6 axb6! -+. Instead 1...b6? = is a draw, while every other move loses (e.g. 1...a6?? 2 c6! +-).

A similar picture is shown in the following diagram:



This arrangement of pawns was dubbed the quartgrip by Kmoch, and is characterized by the following breakthrough possibility:

1 f5 \$b4 2 g5

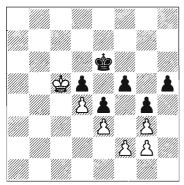
2 f6 gxf6 3 exf6 e5 4 g5 hxg5 5 h6! wins for White.

2...exf5

2...hxg5 3 f6! gxf6 4 h6! +-.

3 g6! fxg6 4 e6! +-

Unusual pawn-structures might favour a breakthrough:



9.03 =/+ Svacina - H.Müller Vienna 1941

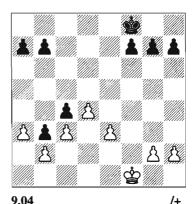
At first sight Black is in zugzwang. However, the weakened white pawn-structure (the doubled pawns on g2 and g3) and the king who is too far advanced allow a typical breakthrough:

1...f4! 0-1

In view of the lines 2 gxf4 h4! 3 f5+ \$\prec\$xf5 4 \$\prec\$xd5 h3! -+; 2 \$\prec\$c6 h4 3 gxf4 g3! 4 fxg3 fxe3 -+; 2 \$\prec\$b4 f3 3 gxf3 h4 4 gxh4 g3 5 fxg3 exf3! -+; 2 exf4 h4! 3 gxh4 g3! 4 fxg3 e3! and Black wins.

If White were to move, he could reach the square of the e-pawn by 1 \$\times b4!\$ and draw. If in 9.03 the g3-pawn were at h4, White would win since then no breakthrough is possible (1...f4 is answered by 2 g3! +-).

In the next example it's a doubled pawn that enables Black to make a break-through:



J.Ambrož – G.Dizdar Trenčianske Teplice 1985

The later majority breakthrough by ...b5-b4 is already here visible, but at first Black has to improve the situation in the centre and on the kingside:

1...f5! 2 \$\pmeq\$e2

After 2 h3 \$\displayset e7 3 g4 fxg4 4 hxg4 b5 -+ Black wins by first getting his pawn to a4 and then creating an outside passed pawn on the kingside. White is helpless because he can't engage in any activities.

- 2 a4!?, with the idea of frustrating Black's plan on the queenside, doesn't save the game either, e.g. 2... \$\to\$e7 3 \$\to\$e2 \$\to\$e6:
- a) 4 a5 \$\preceded{9}d6 5 \$\preceded{9}f3 b5 6 axb6 a5!! 7\$\preceded{9}e2 (7 e4 fxe4+ 8 \$\preceded{9}xe4 a4! -+) 7...a4 8\$\preceded{9}d2 \$\preceded{9}c6! -+.\$
 - b) 4 \(\frac{1}{2}\)f3 and then:
- b1) 4...g5? proves to be premature: 5 g4! fxg4+ 6 \$\preceq\$xg4! a5 7 e4! (after 7 \$\preceq\$xg5? the black breakthrough wins: 7...b5!! 8 axb5 a4! 9 b6 \$\preceq\$d7! 10 b7 \$\preceq\$c7! 11 d5 a3 12 d6+ \$\preceq\$xb7! 13 \$\preceq\$f6 \$\preceq\$c6! 14 \$\preceq\$e7 axb2! 15 d7 b1\$\preceq\$! 16 d8\$\preceq\$\preceq\$e4+! 17 \$\preceq\$f8 \$\preceq\$f5+ and Black wins by exchanging queens) 7...\$\preceq\$d7 8 e5! b5! 9 axb5! a4! 10 b6! a3! 11 e6+=.
- b2) 4...a5 5 e4 fxe4+! 6 \$\dispxe4\$ b5! 7 d5+ (7 axb5 a4! 8 b6 \$\disp\delta d7 -+) 7...\$\disp\d6 8

\$\psid4 bxa4! 9 \$\psixc4 a3 10 \$\psixb3 axb2! 11 \$\psixb2 \$\psixd5! -+.

2...b5 3 \$\d2

The more active 3 \(\Psi f \) doesn't help White either: 3...a5 4 e4?! b4 -+.

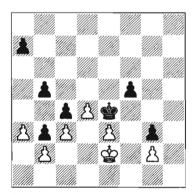
3...**\$**e7 4 **\$**e2

White is helpless against Black's plan because his king mustn't be too far away from the queenside.

4...\$\perpensor 6 \perpensor 6

9 g3 a5 10 \$\display\$2 a4 11 h3 (11 \$\display\$1 b4! 12 cxb4 \$\display\$xe3 13 d5 f4 -+; 11 \$\display\$2 b4 12 \$\display\$d2 bxa3 13 bxa3 h4 14 gxh4 f4 15 exf4 gxf4 -+) 11...b4 12 cxb4 (12 axb4 h4 13 gxh4 g4 14 hxg4 fxg4 15 h5 a3 16 bxa3 b2 -+) 12...h4! 13 gxh4 g4! 14 hxg4 fxg4! 15 b5 g3! 16 b6 g2! 17 b7 g1\$\display\$! 18 b8\$\display\$\display\$xe3+! 19 \$\display\$d1 \$\display\$g1+ 20 \$\display\$d2 \$\display\$f2+ 21 \$\display\$c3 \$\display\$xd4+! 22 \$\display\$b4 c3+! -+.

9...h4 10 \$\psie2 g4 11 \$\psid2 g3 12 hxg3 hxg3! 13 \$\psie2 (D)\$



13...a5!?

B

13...a6?! 14 \$e1 a5 15 \$e2 b4! 16 axb4 a4!! (16...axb4? 17 \$e2! bxc3+! 18 \$xc3! \$e45! 19 \$eb4!? \$e4! 20 \$exc4 \$exc3! 21 d5! f4! 22 d6! f3! 23 gxf3! g2! 24 d7! g1\$! 25 d8\$! \$\frac{1}{2}\$! \$\frac{1}{2}\$

14 \$\pm\$d2 a4! 15 \$\pm\$e2 b4!! 16 \$\pm\$d2 bxa3! 17 bxa3 b2! 18 \$\pm\$c2 \$\pm\$xe3 19 d5 f4 20 d6 f3

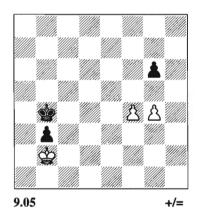
This second breakthrough on the other wing finally decides.

21 d7 fxg2 22 d8\bullet b1\bullet+! 23 \bulletxb1 g1\bullet+! 24 \bulletc2 \bulletf2+ 25 \bulletb1 g2 0-1

There could follow 26 \(\psi\)d4+ \(\phi\)e2 27 \(\psi\)xc4+ \(\phi\)d1 28 \(\psi\)xa4+ \(\phi\)d2 29 \(\psi\)d7+ \(\phi\)e1 30 \(\psi\)e6+ \(\psi\)e2 31 \(\psi\b6 \(\psi\)f1 -+.

B) Breakthrough of the Majority

If one already has a pawn majority on one wing it's of course easier to create a passed pawn. It is worth noting that it is often better not to play according to the rule 'candidate in front', but to exploit a breakthrough idea. Our next example illustrates a typical procedure:



1 g5!

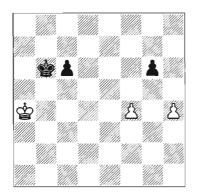
Not 1 f5? gxf5! 2 g5 (2 gxf5 \(\precent{\precent}\)c5! =) 2...f4! 3 g6! f3! =.

The g-pawn wins an important tempo on its way to the 8th rank. One should keep this idea in mind. The existing structure is very aggressive concerning a breakthrough (f5-f6 threatens to create a far-advanced protected passed pawn and if the white king manages to capture the g6-pawn he is already on a key square of the g5-pawn). The temporary backwardness of the f-pawn is insignificant because of the black king being too far away (a weakness that can't be exploited is no weakness!).

1...\$c5 2 f5! \$\d6 3 f6! +-

White wins as in 4.08. If one moves the starting position one file to the right it is a draw because of 6.01H, since a protected passed pawn on g6 doesn't secure a win.

The following beautiful study shows an accurate preparation for the breakthrough of a majority:



9.06 M.Zinar, 1982

The white pawns on the kingside are separated, with the consequence that during the creation of a passed pawn, a dangerous black passed pawn also arises. Therefore first White's king has to be placed in such a way that he is able to stop the black pawns:

1 **\$**b3!

1 \$\psib4? c5+! 2 \$\psic3 \$\psic6 3 f5 gxf5! 4 h5! f4! 5 h6 f3! 6 \$\psic42 c4! 7 h7 c3+! =.

1...c5

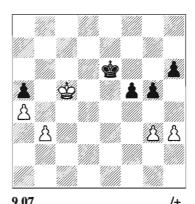
1...\$c5?! 2 f5! +-.

2 \$c2! c4 3 \$d1!! \$c5

Only now does the breakthrough decide:

4 f5! gxf5 5 h5! f4 6 h6! +-

There are also a great many games featuring this type of idea.



9.07 E.Geller – V.Smyslov USSR Ch (Moscow) 1952

In this example Black need be in no hurry, and should plan the best time to make a breakthrough on the kingside. A very important nuance is a possible promotion with check at g1. In the end, Smyslov actually breaks through with his h-pawn.

1...h5!?

1...f4?! 2 gxf4 gxf4! 3 堂d4 堂f5! (3...堂d6? 4 h4! f3 5 堂e3! 堂c5 6 堂xf3! 堂b4! 7 堂g4 堂xb3! 8 堂h5! 堂xa4! 9 堂xh6! 堂b3 10 h5 a4 11 堂g7 = (3.07)) 4 b4 f3 5 堂e3 axb4! 6 a5 b3! 7 a6 b2! 8 a7 b1豐! 9 a8豐 豐e1+ 10 堂d3 豐e2+ 11 堂c3 豐e3+ 12 堂b2 豐d4+ 13 堂b3 f2 -+.

2 h4

2 \$\d4 \$\d6 3 \h4 g4 4 \$\d3 \$\d5 5 \$\d2 8 d3 \$\d5 5 \$\d2 8 d3 f4 7 gxf4+ \$\d2 xf4! wins for Black.

2...f4

2...h4 3 gxh4 g4! 4 hxg4 fxg4! 5 \$\dd{2}d4 g3 6 \$\dd{2}e3 axb4 -+.

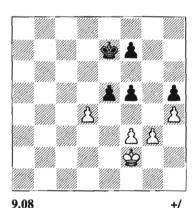
3 gxf4 g4! 4 hxg4 h4

4...hxg4 5 \$\dd g3 6 \$\dd e3 axb4 -+.

5 f5+ \$\psi d7! 6 g5 h3 7 g6 \$\psi e7 8 bxa5 h2 9 a6 h1 \$\psi 10 \$\psi b6 \$\psi d6 0-1\$

C) Creation of Two Passed Pawns

The idea of using a breakthrough to create two widely separated passed pawns occurs quite often as well. In the first position, doubled pawns seem to be the cause:



A.Wohl – S.Solomon
Australian Ch 1985

The d-pawn deflects the black king so that the breakthrough on the kingside leads to a win:

1 d5!!

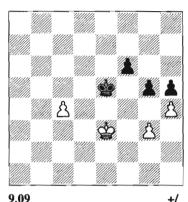
1 dxe5? \$e6 2 f4 \$d5 3 \$e3 \$c4 only draws.

1...**⇔**d6

The game actually finished 1...e4 2 g4 1-0. The following line was given by Rogers in *Informator 41*.

2 g4! fxg4 3 fxg4! \$\preceq\$xd5 4 gxh5! \$\preceq\$e6 5 h6! \$\preceq\$f6 6 h5! +- By the way, without the f7-pawn 1 dxe5! wins, while 1 d5? only leads to a draw.

The reader should well keep in mind the following idea so that he isn't unpleasantly surprised:



A.Kharlov - T.Ernst
Haninge 1992

After Black's last move, ...g5?, Kharlov became serious:

1 g4!! hxg4

1...gxh4 2 gxh5! h3 3 \$\display\$f2 and White wins.

2 h5!

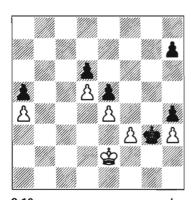
The white pawns can't be stopped.

2...f5 3 h6 f4+ 4 \$f2 g3+ 5 \$\frac{1}{2}\$g2 \$\frac{1}{2}\$e4 6 h7 1-0

D) Breakthrough Possibilities for the Defence

Of course the mere threat of a breakthrough can dictate the flow of play. The following example is characteristic (see next diagram):

The optional breakthrough f4 indirectly protects the h3-pawn and stops the black king from going round the f3-pawn



9.10 =/= L.Psakhis - G.Kasparov *Murcia* (3) 1990

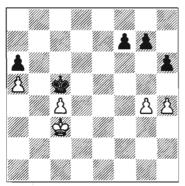
from behind. Therefore Garry couldn't try to win any longer.

1...**⊈**g2

1...\$\prec\$xh3? 2 \$\prec\$f2! h6 3 f4! exf4 4 e5! dxe5 5 d6 +-.

2 \$\psi e3! \$\psi g3! \frac{1}{2} -\frac{1}{2}\$

In our last example, the threat of a breakthrough devalues a pawn majority:



9.11 +/=
K.Müller, Original

After 1 h5! the black majority cannot create a passed pawn on its own, so White wins:

1...**\$**c6

1...f6?! (now the black kingside pawns are completely devalued; not even g5 followed by f5 is still possible) 2 \$\displaystyle{\phi}d3 \$\displaystyle{\phi}b4\$ 3 \$\displaystyle{\phi}d4! \$\displaystyle{\phi}xa5 4 c5 \$\displaystyle{\phi}b5 5 \$\displaystyle{\phi}d5! +--.

Though the advance 1...g5 fits well into the chapter on breakthroughs, it does lose: 2 \$\precedd3!\$ f6 (2...\$\precedds 43\$ \$\precedds 44!\$\precedds xa5 4\$ c5 +-) 3 \$\precedds e4 \$\precedds xc4 4 \$\precedds f5!\$\$\precedds 55 \$\precedds xf6\$ +-.

 $1...g6\ 2\ g5!!\ hxg5\ 3\ h6! +-$ is the main idea of 1 h5.

2 \$\psi d4! \$\psi d6 3 c5+! \$\psi c6

3...\$\perpensec{\perpensec{\phi}}{2} \perpensec{\phi}{2} \perpense

4 \$\preceq\$c4! g5 5 \$\preceq\$d4! f5 6 gxf5! g4 7 f6 wins for White.

If Black is to move, he immediately has to create a passed pawn; otherwise he can't hold the position:

1...h5!!

1...\$\psid6? 2\$\psid4! h5 3 c5+\$\psic6 4 gxh5! +-; 1...g5? 2 h5 f6 3 \$\psid3! \$\psib4 4 \$\psid4 \psid4 \psid4 \psid5! \psic6 5 c5+-; 1...g6? 2 g5! hxg5 3 hxg5! \$\psic6 4 \$\psid4! \$\psid6 5 c5+ \$\psic6 6 \$\psic6! \psic6 15 + 7 gxf6! \$\psic6 8 \$\psid5! \psic6 2 c7! g2 13 c8\$\psi! g1\$\psi 14 \$\psic7 c7+! \$\psic6 8 15 \$\psix xa6! \$\psid 1 16 \psic6 2 c7! g2 13 c8\$\psi! g1\$\psi 14 \$\psic7 c7+! \$\psic6 8 15 \$\psi xa6! \$\psid 1 16 \psic6 2 c7! g2 13 c8\$\psi! g1\$\psi 14 \$\psic6 c7+! \$\psic6 8 15 \$\psi xa6! \$\psid 1 16 \psic6 2 c7! g2 13 c8\$\psi 1 16 \$\psic6 2 c7! g2 13 c8\$\psic6 2 c7! g2 13 c8\$\

2 gxh5

2 g5 f5 3 g6!? f4 4 \$\precede d3! f3 (4...\$\precede b4 5 \precede \text{\$\precede \$\precede \$\pr

2...f5!? 3 \$\psi d3! \$\psi b4!

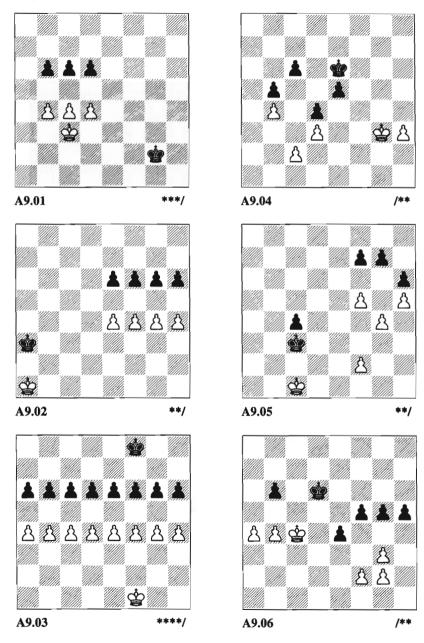
3...f4? 4 \$\displayse\$4! \$\displayse\$5 \$\displayse\$xf4! \$\displayse\$5 \$\displayse\$6! \$\displayse\$6...\$\displayse\$6...\$\displayse\$5! \$\displayse\$6! \$\display

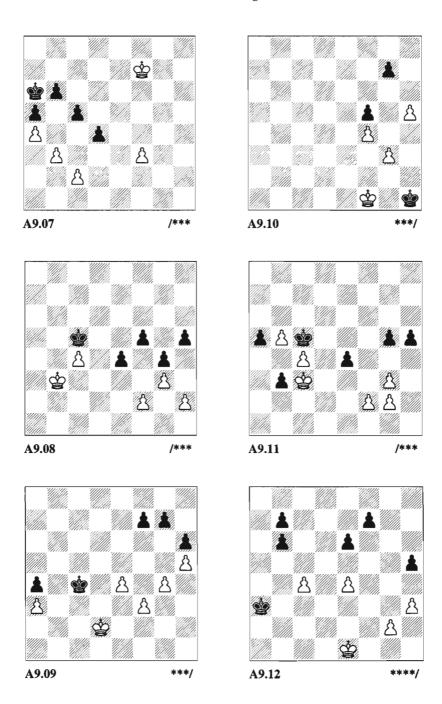
4 \$\psi d4 \$\psi xa5 5 \$\psi e5 \$\psi b4 6 \$\psi xf5 a5 7\$ \$\psi g6 a4 8 c5!

White has to sacrifice the c-pawn in order to make possible the stalemate defence that is known from Chapter 3.

8...\$xc5 9 \$xg7! =

Chapter 9 Exercises





Solutions to Chapter 9 Exercises

A9.01 T.Kok, Schaakvereld, 1939

At first White has to improve his king's position before he can break through as in 9.01:

1 \$\d2!

1 b5?? cxb5 2 cxb5 d5 -+.

1 \$b2? \$f2 2 c5 bxc5 3 dxc5! = (3 d5? cxd5! 4 b5 d4! 5 b6 d3! -+).

1 $ext{$\sigma c2$? $\sigma f3$ 2 c5 bxc5 3 dxc5! = (3 d5? cxd5 4 b5 <math> ext{$\sigma c2$ c2 5 b6 d4 6 b7 d3+-+).}$

1 c5? dxc5 2 bxc5 bxc5! 3 dxc5 \dot{\$\dot{2}\$}f3 draws.

1 d5? c5! (1...cxd5? 2 \$\d4! dxc4 3 \$\delta xc4! \text{ \$\delta f3 4 \$\delta d5! +--) 2 bxc5 bxc5! 3 \$\delta b3 \delta f3 4 \$\delta a4 \delta e4 5 \delta b5 \delta d4 6 \delta c6 \$\delta xc4! 7 \delta xd6! \delta b4 8 \delta e7 c4 =.

1 \$\preceq\$d3? \$\preceq\$f3 2 c5 bxc5! 3 d5 cxd5! 4 b5! c4+! 5 \$\preceq\$d4 c3! =.

1...**⊈**f3

1...b5 2 d5 cxd5 3 cxb5 +-; 1...d5 2 b5 +-; 1...c5 2 dxc5 dxc5 3 bxc5! bxc5 4

2 c5! dxc5

2...bxc5 3 d5! cxd5 4 b5! +-.

3 b5! cxb5 4 d5! +-

A9.02 J.Kling and B.Horwitz, 1851

Since only the f-pawn would queen with check, it has to be freed:

1 h5!

1 g5? fxg5 2 h5 gxf4! -+; 1 e5? fxe5! 2 h5 exf4! -+.

1...gxh5

1...g5 2 e5! fxe5 (2...gxf4 3 exf6! +-; 2...f5 3 gxf5! +-) 3 f5 e4 4 fxe6 and White wins.

2 e5! fxe5 3 f5! hxg4 4 f6! g3 5 f7! g2 6 f8\dfrac{1}{2} +! +-

A9.03 P.Cathignol, Thèmes-64, 1981

Of course it seems improbable that this position would occur in a practical

game but still we didn't want to hide this little masterpiece from our readers since it is somehow amazing that White is only able to break through in one successful way:

1 d5!

1 a5? bxa5! = (1...b5? 2 d5! exd5 3 exd5! bxc4 4 dxc6 \$\pmeq\$e7 5 b5 c3 6 \$\pmeq\$e2 +--); 1 b5? cxb5! = (1...axb5? 2 c5! dxc5 3 dxc5! \$\pmeq\$e7 4 cxb6! \$\pmeq\$d7 5 a5! +--); 1 c5? dxc5 =; 1 g5? fxg5 =.

1...exd5 2 exd5! cxd5 3 a5!

3 cxd5? b5 = .

3...bxa5 4 b5! axb5 5 cxb5! \$e7 6 b6! \$d7 7 b7 \$c7 8 g5! fxg5 9 h5! gxh5 10 f5! a4 11 f6 a3 12 f7 a2 13 b8\$\psi\$+! \$\psi\$xb8 14 f8\$\psi\$+! +-

A9.04 L.Barillaro – B.Björnsson, Reykjavik 1994

Hopefully you have noticed that the black breakthrough doesn't work, but it's the best he can try:

1...e4!? 2 dxe4

2 \$\psi f2?! e3+ (2...exd3 3 cxd3! \$\psi d5 4\$ h4 +-) 3 \$\psi f3 \$\psi f5 4 c3! dxc3 (4...c5 5 bxc5! dxc3 6 \$\psi xe3! b4 7 d4 b3 8 \$\psi d3 +-) 5 \$\psi xe3! \$\psi g5 6 d4! \$\psi h4 7 \$\psi d3!\$ \$\psi xh3 8 \$\psi xc3 \$\psi g4 9 d5! \$\psi f5 10 \$\psi d4! +-

2 \$\psi4? \ext{exd3!} (for 2...e3? 3 \$\psi53 +- \text{see} \text{ under 2 \$\psi52\$ 3 cxd3! \$\psi65! (3...c5? 4 \$\psi4! \cxt{cxb4 5 \$\psix4d4! \$\psi56\$ \$\psi26!! +-) 4 \$\psi53\$ (4 h4 c5! 5 bxc5 b4 =) 4...c5! and then:

a) 5 \$\preceq\$e2 cxb4! 6 \$\preceq\$d2 \$\preceq\$e5 7 \$\preceq\$c2 \$\preceq\$f4! 8 h4 (8 \$\preceq\$b3 \$\preceq\$e3! =) 8...\$\preceq\$g4! =.

b) 5 bxc5 \$\prec\$xc5! 6 h4 (6 \$\prec\$e2 \$\prec\$b4! 7 h4 \$\prec\$c3 =) 6...b4! 7 \$\prec\$e2 b3! 8 \$\prec\$d2 \$\prec\$b4! 9 \$\prec\$c1 \$\prec\$c3! =.

2...c5!?

2...d3 3 cxd3! c5 4 \(\psi f2 \) cxb4 5 \(\psi e3 \) +-.

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3 \$\frac{1}{2}\$f4?? cxb4! 4 h4 d3 5 \$\frac{1}{2}\$e3 dxc2! 6 \$\frac{1}{2}\$d2 b3! -+.

In the game, White went wrong by 3 bxc5?? d3! 4 cxd3 b4! 5 \$\(\frac{1}{2} \)f4 b3! 6 d4 b2 7 d5+ \$\(\frac{1}{2} \)e 7 8 \$\(\frac{1}{2} \)e 5 \$\(\frac{1}{2} \)d6+ \$\(\frac{1}{2} \)d7 10 \$\(\frac{1}{2} \)d5 \$\(\frac{1}{2} \)d7 11 \$\(\frac{1}{2} \)e 5 \$\(\frac{1}{2} \)d7 40-1.

3...c4 4 h4 \$\displayse\$ 5 h5 \$\displayse\$ 6 6 \$\displayse\$ 7 e5 \$\displayse\$ 8 \$\displayse\$ 4 d3 9 cxd3! +-

A9.05 Ed.Lasker - Moll, Berlin 1904

In this well-known example, White is successful because Black hasn't yet played ...f6:

1 f6!

The majority is used to weaken the black pawn-structure.

In the game, there actually followed 1 f4? f6! 2 g5 \$\displace\$d4 0-1.

1...gxf6 2 f4 \$\d4 3 g5 fxg5 4 fxg5! \$\delta e5 5 gxh6! \$\delta f6 6 \$\delta c2 +-\$

Black soon has to leave the square of the h6-pawn.

A9.06 N.Weinstein - M.Rohde, Lone Pine 1977

At first sight it looks as if White has the advantage due to his outside majority. The game proceeded 1...h4?? 2 gxh4! gxh4 3 \$\preceq\$d4! \$\preceq\$c6 4 a5 bxa5 5 bxa5! \$\preceq\$d6 6 a6 \$\preceq\$c6 7 \$\preceq\$e5 \$\preceq\$b6 8 \$\preceq\$xf5 \$\preceq\$xa6 9 \$\preceq\$xe4 1-0. However, the white pawn-structure on the kingside is weakened and therefore...

1...f4! 2 gxf4

2 \$\dd4 f3 3 gxf3 h4! 4 gxh4 gxh4! 5 \$\ddyxe4 \text{h3} -+.

2...gxf4! 3 &d4 e3! 4 fxe3

4 \$\d3 f3 5 gxf3 h4 6 \$\div xe3 h3 wins for Black.

4...f3! 5 gxf3 h4! -+

With a pawn at h2 instead of g3 the outside majority would in fact have won.

A9.07 Zubarev - N.Grigoriev, USSR Ch (Leningrad) 1925

This example has already been analysed in a detailed way in a couple of books, for example in Nunn's *Tactical*

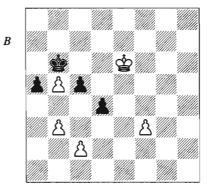
Chess Endings and of course in Averbakh and in ECE.

1...b5! 2 axb5+ \$\dispbeq b6

2...\$\precepts \text{ b5? 3 f4 c4 4 bxc4+! \$\precept \text{ xc4 5 f5}\$ a4 6 f6 a3 7 \$\precept \text{ e6 a2 8 f7! a1}\$\precept 9 f8\$\precept !=. However, 2...\$\precept \text{ b7 is even more clear-cut, as White's pawns have to advance further before they start gaining tempi with checks.

3 \$e6 (D)

3 \$\psi 67\$ a4 4 bxa4 c4 5 f4 d3 6 cxd3 c3! (Nunn; 6...cxd3? 7 a5+ \$\psi c5 8 b6 \$\psi c6 9 a6 d2 10 a7 \$\psi b7 11 f5 d1 \$\psi 12 f6 = Nunn) 7 f5 c2 8 f6 c1 \$\psi 9 f7 \$\psi c5 + 10 \$\psi e8\$ \$\psi c5 + 11 \$\psi d7 \$\psi f6 12 \$\psi e8 \$\psi c6 + 13 \$\psi f8 \$\psi c5 -+.



3...a4! 4 bxa4 c4! 5 f4 d3 6 cxd3 cxd3 7 f5 d2! 8 f6 d1\(\mathbf{e}\)! 9 f7\(\mathbf{e}\)d8 10\(\mathbf{e}\)f5\(\mathbf{e}\)d6 -+ 0-1

A9.08 F.Cruz - Y.Seirawan, Moscow OL 1994

The black f- and h-pawns are backward, but they are also far-advanced and the white king is far away on the queenside. Nevertheless the black breakthrough demands very precise play since the white pawns become dangerous as well. Our compliments if you found the main line:

1...f4!!

1...\$\d4? 2 \d2 \d4! f4 3 gxf4! h4! 4 c5! g3 5 hxg3 hxg3 6 c6! =.

2 gxf4

2 \$\preceq\$c3 e3 (2...f3 -+) 3 fxe3 fxg3! 4 hxg3 h4! 5 gxh4 g3! -+.

2...e3 3 fxe3 h4! 4 f5 \$\d6!

4...g3? 5 f6 \$\pi\$d6 6 c5+ \$\pi\$e6 7 hxg3 hxg3! 8 c6! =.

5 \$b4 \$e5! 0-1

Cruz resigned in view of 6 c5 \$\preceq\$xf5! 7 c6 \$\preceq\$e6! 8 \$\preceq\$c5 g3! 9 hxg3 h3! 10 \$\preceq\$b6 h2! 11 c7 \$\preceq\$d7! -+ (Seirawan in Inf 62/542).

A9.09 P.Haba – Z.Krcmar, Czech Cht 1994

Though the black king is very active, which makes the realization of the extra pawn more difficult, White is nevertheless able to win thanks to his far-advanced pawns:

1 **\$e3!**

1 \$\preceq\$c2?! \$\preceq\$d4 (1...f6 2 \$\preceq\$d2! \$\preceq\$b3 3 f4 \$\preceq\$xa3 4 \$\preceq\$c3! \$\preceq\$a2 5 e5 a3 6 \$\preceq\$c2 +--) 2 \$\preceq\$d2! \$\preceq\$c4 3 \$\preceq\$e3! +--; 1 \$\preceq\$e2 \$\preceq\$d4 2 \$\preceq\$f2 \$\preceq\$c4 3 f4? \$\preceq\$b3! 4 g5 \$\preceq\$xa3! 5 f5 \$\preceq\$b4 6 f6 gxf6! 7 gxh6 a3! =.

1...\$b3\ 2 \$d3 \$xa3 3 \$c3! \$a2 4 \$c2! \$a3 5 \$c5 \$b4 6 f4! \$c4 7 f5 \$d5 8 g5! hxg5

8...\$xe5 9 f6! gxf6 10 gxh6! +-.

9 f6! gxf6 10 h6 fxe5 11 h7 f5 12 h8營 全e4 13 全d2 g4 14 全e2 f4 15 營h7+ +-1-0

A9.10 J.Behting, 1905

Certainly you have guessed on a king move but was it the right one?

1 \preper e1!!

1 \$\pie2? \$\pig2! 2 g4 fxg4! 3 f5 g3! 4 f6 gxf6! 5 h6! f5! 6 h7 f4! 7 h8\$\pi f3+! 8 \$\pi d3 f2! 9 \$\pi b2 \$\pig1! =; 1 \$\pi f2? \$\pi h2! 2 \$\pi f3 \$\pi h3! =; 1 g4?? fxg4! 2 \$\pi f2 \$\pi h2! -+.

1...**⊈**g2

1...\$\dot{\phi}2 2 \dot{\phi}f2! +-.

2 g4!

+-.

2 h6? gxh6! 3 g4! fxg4! 4 f5 \$h2 =. 2...fxg4 3 f5! g3 4 f6! gxf6 5 h6! \$f3

After 5...\$\phi\$ White promotes with check. 5...\$\forall 6 h7! \$f4 7 h8\$\psi\$! \$f3 8 \$\psi\$a8

6 \psi f1! +--

A9.11 Kuznetsov – Zelenskikh, corr.

Since an immediate 1...h4? doesn't work because of 2 gxh4! g4 3 g3 +-, the breakthrough has to be prepared:

1...g4!!

1...a4? 2 g4!! h4 (2...hxg4 3 g3! =) 3 \$\dispb2 = \dispb4? 4 b6! a3+ 5 \dispb1 and White wins.

2 \$\psixb3 h4 3 gxh4 g3 4 fxg3 e3 5 \$\psic2\$ e2 6 \$\psid2\$ a4! 0-1

A9.12 N.Grigoriev, 1938

One of the many masterpieces by Grigoriev, in which the knowledge of Chapter 8 has to be applied as well.

1 e5!

1 h4? f5! -+.

1...\$b4 2 h4! \$xc4 3 g4! \$d5 4 gxh5! \$xe5 5 h6! \$f6 6 h5!

The duel is now decided by precise play from the white king:

6...b5 7 **\$d2!**

7 \$\preceq\$e2? b4! 8 \$\preceq\$d3 b5! 9 \$\preceq\$c2 e5! 10 \$\preceq\$b3 e4! 11 \$\preceq\$xb4 e3! 12 \$\preceq\$c3 b4+! 13 \$\preceq\$d3 b3! --+.

7...b4

7...e5 8 \$\dispc2 c3 b6 9 \$\dispd3 b4 10 \$\dispc4! e4 11 \$\display b4! +--.

8 \$\preceq\$c2! e5 9 \$\preceq\$b3! e4 10 \$\preceq\$xb4! b5 11 \$\preceq\$c3! e3 12 \$\preceq\$d3! b4 13 \$\preceq\$xe3!

Have you found all 13 exclamation-mark moves?

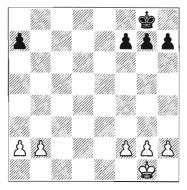
13...b3 14 \$\psid d2 b2 15 \$\psic c2! b1\$\psi + 16 \$\psix b1!\$ \$\psi g5 17 h7! +-

10 Pawns on Both Wings

Now that we have made ourselves familiar with the fundamental techniques and methods, we move on to examples with pawns on both wings, which are very important from a practical point of view. The next two chapters are dedicated to this issue and we have arranged them as follows. In this chapter there are examples in which outside passed pawns or pawn majorities play the important role; first the extreme cases will be discussed and then pawn-structures which become more and more symmetrical will be dealt with. Chapter 11 deals with the question of whether the kings are able to penetrate. There we will also examine situations in which both sides fight for tempi.

A) Extra Pawn

First here is an instructive example to warm up:



10.01

+/--

White's plan is very simple:

- 1) Advance the king as far as possible:
- Push the queenside pawns forward ('candidate in front');
- 3) Because the passed pawn that White creates deflects the black king, the white king can penetrate on the kingside and capture several of the black pawns (transformation of one advantage into another), so that finally the white kingside pawns secure the win.

1 \$f1 \$f8 2 \$e2 \$e7 3 \$d3 \$d6 4 \$c4 \$c6

The first phase of the plan is completed; now White has to create a passed pawn.

5 b4

'Candidate first'. Because of his great superiority, White could also play a4 since it doesn't matter that after ...a5 the b-pawn becomes backward.

5...h5 6 a4 h4 7 b5+ \$b6 8 \$b4 g5 9 a5+ \$b7 10 \$c5 \$c7 11 b6+ axb6+ 12 axb6+! \$b7 13 \$c46

Finally the king goes to the black kingside pawns, which leads to a win.

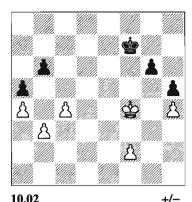
13...\$xb6 14 \$e7 f5 15 \$f6 g4 16 \$xf5 g3 17 fxg3 hxg3 18 hxg3 +-

In the following example, Adorjan demonstrates that one can also realize an extra pawn if the circumstances are not so favourable as in the previous example (see Inf 47/637):

The extra pawn is a backward, and the pawn sacrifice ...g6-g5 is an important resource for the defence. Nevertheless it is possible to break through as in Chapter 9:

1...\$66 2 f3! g5+!?

2...\$e63\$g5\$f74f4\$g75f5+--.



10.02 A.Adorjan – G.Sax *Hungary 1989*

3 hxg5+! \$g6 4 \$e5! \$xg5 4...h4 5 \$f4! \$h5 6 g6 +-. 5 f4+! \$g6

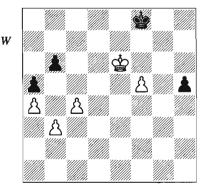
5...\$g4 6 f5 +--; 5...\$h6 6 \$f5 +--. 6 \$e6! \$g7

6...h4 7 f5+! \$\disphi\$h7 8 f6 h3 9 f7 h2 10 f8\$\disphi\$ +-.

7 f5!

7 \$\docume{2}e7\$ doesn't make any progress: 7...\$\docume{2}g6 8 \$\docume{2}e6!\$\docume{2}g7\$.

7...\doc{1}{2}f8 (D)



8 b4!!

By this beautiful breakthrough Adorjan now brings his queenside majority into play. 8...axb4 9 c5 bxc5

9...b3 10 c6! +-.

10 a5! b3 11 a6! b2 12 a7! b1\(\psi\) 13 a8\(\psi\)+! \(\phi\)g7 14 f6+!

In queen endings like this one it is not the number of pawns that counts but how far advanced they are. Thus White is winning even though he is a pawn down, since his f-pawn can't be stopped. However, very accurate play is necessary.

14...\$h6 15 \#h8+ \$g5 16 \#g8+

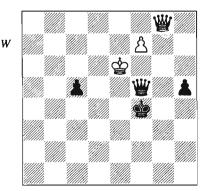
16 f7? allows Black a perpetual check: 16...豐b3+ 17 \$\disper \$\disper b7+ 18 \$\disper b8+ 19 \$\disper g7! \$\disper b5+ 20 \$\disper b7 \$\disper b4+! 21 \$\disper g8 \$\disper a8+! 22 f8 \$\disper bd5+ =.

 $16 \, \text{#g7+} \, \text{\triangleh4} \, (16... \, \text{\trianglef4} \, 17 \, \text{#c7+} +-)$ and then:

- a) 17 f7? is premature due to the bad position of the queen: 17... \$\square\$b6+ 18 \$\square\$d5 \$\square\$b7+ and Black has a perpetual check, e.g. 19 \$\square\$xc5 \$\square\$c7+ 20 \$\square\$d5 \$\square\$d7+ 21 \$\square\$e5 \$\square\$b5+ (21... \$\square\$e7+? 22 \$\square\$f5! \$\square\$d7+ 23 \$\square\$g6! +-) 22 \$\square\$f6 \$\square\$c6+ =.
- b) 17 \(\mathbb{\text{#g2!}}\) \(\mathbb{\text{wb8}}\) 18 \(\mathbb{\text{we4+}}\) \(\mathbb{\text{ch3}}\) 19 f7 +-.

16...**⊈**f4

16...\$h4 17 f7 數e4+ 18 \$f6 數f4+ 19 \$g7 數g5+ 20 \$h7! 數f5+ 21 \$h8 +-. 17 f7 數f5+ (D)

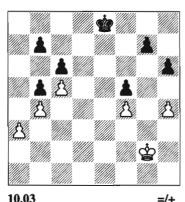


18 &d6?!

At this stage White could win quite easily: 18 \$\preceq e7!? \$\preceq e5+ (18... \$\preceq e4+ 19\$)

\$\psi f6 \| \psi e5 + 20 \| \psi g6 \| \psi g5 + 21 \| \psi h7 \| \psi f5 + 22 \| \psi h8 + -) 19 \| \psi f8 h4 (19...c4 20 \| \psi g6 \| \psi c7 + 23 \| \psi f6 \| \psi c5 24 \| \psi g7 + -) 20 \| \psi g6 h3 (or 20...\| \psi h8 + 21 \| \psi e7! \| \psi e5 + 22 \| \psi d7 + -) 21 \| \psi g8 \| \psi d5 22 \| \psi h7 \| \psi d7 23 \| \psi f6 + \psi e4 24 \| \psi h8 h2 25 \| \psi h4 + \psi d3 26 f8 \| \psi + -. After the text-move Adorjan also won but it took much longer.

In the previous two examples we have noticed that first one has to activate the king and then push the pawns forward. Usually this is true but no rule is without exception. It is worth to noting that sometimes there are important pawn moves that have to come first:



J.Timman – B.Larsen

Buenos Aires 1980

1 h5!

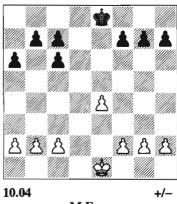
This makes the black g-pawn backward, and thus takes away possible spare tempi. Black can't profit from an outside passed pawn after ...g6 because his king isn't able to get into the white position.

1 \$\Delta f3?\$ would be wrong as then Black could realize his extra pawn: 1...g6! 2 \$\Delta g3 \$\Delta f7 3 \$\Delta f3 (3 \text{h5 g5!} -+) 3... \$\Delta f6 4\$\$\$ \$\Delta e3 g5! 5 \text{hxg5+} \text{hxg5!} 6 \text{fxg5+} \$\Delta xg5!\$\$ -+ and Black wins by analogy to 10.01.

1...\$f7 2 \$f2 \$f6 3 \$f3! 1/2-1/2

Black can't make any progress: 3...g5 (3...\$\phi64\$ \$\phi\$ \$\phi3\$! = and he doesn't have a spare move with a pawn) 4 hxg6! \$\phi\$xg6 5 \$\phig3\$! \$\phi6\$ (5...\$\phi5\$ 6 \$\phi3\$! =) 6 \$\phi4\$! and White is fast enough to prevent a march of the black king to the centre: 6...\$\phi66\$ = (not 6...\$\phi66\$? 7 \$\phi5\$! \$\phi63\$ 8 \$\phi\$xh6! \$\phi44\$ 9 \$\phi66\$! \$\phi64\$ 10 \$\phi65\$! +-).

Though the number of pawns is equal, the familiar procedure is also possible in the next example:



M.Euwe Deutsche Schachzeitung, 1940

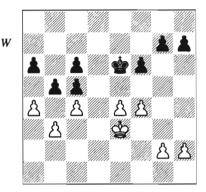
Such a pawn-structure can, for example, arise in the Exchange Spanish. Thus it is important to deal with it. Again the first step is to bring the king closer to the pawns and then one should advance on the kingside since the mobilization of the majority is the right way to exploit the quasi-extra pawn. Since both sides still have seven pawns there is only a little space for penetration, which demands a certain amount of precision.

1 \$\preceq\$e7 2 \$\preceq\$e3 \$\preceq\$e6 3 f4 c5 4 c4 c6 5 a4 b5 6 b3!

White now has a kind of formation on the queenside against which Black can't create a passed pawn.

6 cxb5? cxb5! = would of course give up the whole advantage and the position would be drawn.

6...f6 (D)



7 g4

7 a5? gives away the decisive spare tempo:

- a) Not 7...b4? 8 g4:
- a1) 8...h6 9 f5+ \$\pi\$e5 10 h3 \$\pi\$d6 11 \$\pi\$f4 \$\pi\$d7 12 e5 \$\pi\$e7 13 exf6+ (13 e6 followed by \$\pi\$g3-h4-h5-g6 also wins) 13...gxf6 14 h4 \$\pi\$f7 15 g5! \$\pi\$g7 16 gxf6+ \$\pi\$xf6 17 \$\pi\$e4 +-.
- a2) 8...g5 9 e5!? (this pawn sacrifice gives White an even more distant majority; 9 \(\text{\$\text{\$}} \)f3 \(\text{\$} \)f0 \(\text{\$\text{\$}} \)e3 \(\text{\$} \)d6 \(11 \) e5+ fxe5 \(12 \)f5! \(\text{\$\text{\$}} \)e7 \(13 \)\(\text{\$\text{\$}} \)e4 \(\text{\$\text{\$}} \)f6 \(14 \) h3! \(+-) \(9 \)...gxf4+ \(10 \)\(\text{\$\text{\$}} \)xf4! fxe5+ \(11 \)\(\text{\$\text{\$}} \)e4! \((11 \)\(\text{\$\text{\$}} \)g5? \(\text{\$} \)h6+! \(12 \)\(\text{\$\text{\$}} \)xf6! e4! \(13 \)\(g5! \)\(\text{\$\text{\$}} \) leads to a queen ending that shouldn't be won) \(11 \)...h6 \(12 \)\(\text{\$\text{\$}} \)f6 \(13 \)\(g5+! \) hxg5 \(14 \)\(\text{\$\text{\$}} \)f5 \(\text{\$\text{\$}} \)xe5! \(+-\). The outside majority has served its purpose and White wins easily.
- b) 7...\$\d6? 8 f5! \$\delta = 5 9 g4 h6 (9...g5 10 fxg6! hxg6 11 h4! +-) and then:
- b1) 10 h4? b4! 11 h5! \$\text{\psi}\$d6! 12 \$\text{\psi}\$f4 \$\text{\psi}\$d7 13 e5 \$\text{\psi}\$e7 (13...fxe5+? 14 \$\text{\psi}\$xe5 \$\text{\psi}\$e7 15 \$\text{\psi}\$f4 \$\text{\psi}\$f6 16 g5+! hxg5+ 17 \$\text{\psi}\$g4! +-) 14 exf6+ gxf6! =.

- b2) 10 h3! b4 11 h4! **\$\delta\$** d6 12 **\$\delta\$** f4! --.
- c) 7...g6! 8 g4 \$\psid6 9\$ h4 (9 g5 fxg5 10 fxg5! \$\psie5 11\$ h3 \$\psid6 12\$ \$\psif4 \$\psie6 =) 9...h6! 10 \$\psif3 \$\psie7 11\$ h5 (11 e5?! fxe5! 12 fxe5 g5 13 h5 \$\psie6 14 \$\psie4 e4!\$ b4! 15 \$\psif3 \$\psix xe5 16 \$\psie3! =) 11...g5! 12 e5 gxf4 13 exf6+ \$\psif5 7 14 \$\psix xf4 \$\psix xf6!\$ 15 \$\psie4 26!\$ 16 \$\psief3 4 \$\psif5 6!\$ 17 g5+ hxg5+! 18 \$\psie4 94!\$ b4! 19 h6 \$\psie5 g6!\$ 20 h7! \$\psix xh7!\$ 21 \$\psix xg5 \$\psig5 7!\$ = (Speelman in Endgame Preparation).

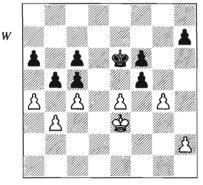
7 f5+ \$\div e5 8 g4 +-.

7...g6

Or 7...\$\d6 8 f5 \$\decent{e}\$e5 and then:

- a) 9 h3? bxa4 10 bxa4! a5! 11 h4! h6!:
- a1) 12 \$\psi f3?! \$\psi d4! 13 \hstyle f3?! \$\psi d4! 13 \hstyle f4? \$\psi xc4! 14 \end{e}5 \text{ fxe5+! 15 \$\psi e4\$ \$\psi b3! 16 \text{ g5}\$ hxg5! 17 hxg5 c4! 18 f6 gxf6! 19 g6 c3 20 g7 c2 21 g8\$\psi + \$\psi b2! -+ \text{) 13...} \$\psi xc4 (13...\$\psi d3 14 \end{e}5! \text{ fxe5! 15 \$\psi f2! \$\psi e4\$ 16 \$\psi g3! \$\psi d3! = \text{) 14 e5! fxe5! 15 g5! \$\psi d3\$ 16 gxh6 gxh6 17 f6! e4+! 18 \$\psi f2\$ \$\psi d2!
 - a2) 12 h5 \(\precede{\phi}\)d6! =.
 - b) 9 a5! +-.

8 f5 + gxf5 (D)



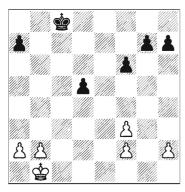
9 exf5+

9 gxf5+ \$\preceq\$e5 10 a5 h6 11 h3 h5 12 h4 b4 13 \$\preceq\$f3! \$\preceq\$d4 14 \$\preceq\$f4! \$\preceq\$c3 15 e5! +-.

9...\$e5 10 h3 bxa4 11 bxa4! a5 12 h4 h6 13 \$f3! h5 13...**⊈**d4 14 g5 +−. **14 gxh5 +**−

B) Majority vs Central Passed Pawn

In Chapter 8 we got to know the strength of an outside passed pawn. It's similar with an outside majority, as the following examples will show:



10.05 K.Müller – V.Lagudin

White places his king on the dream square d4, whereupon it becomes clear that the queenside majority far outweighs the weakened kingside pawn-structure.

1 \psic2 a5?!

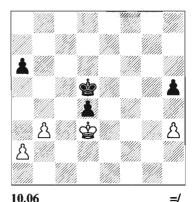
- 1...**⊈**c7:
- a) 2 b4? \$\preceq\$c6 3 \$\preceq\$c3 (3 a4? d4! 4 \$\preceq\$d3\$ \$\preceq\$d5! 5 f4 f5 6 a5 a6! 7 b5 axb5! 8 a6 \$\preceq\$c6! 9 \$\preceq\$xd4 \$\preceq\$b6! -+) 3...d4+! 4 \$\preceq\$xd4 \$\preceq\$b5! 5 \$\preceq\$c3 \$\preceq\$a4! =.
 - b) 2 \$\dip c3 \$\dip c6 3 \$\dip d4 and now:
- bí) 3...h5 4 f4 g6 5 b3 a6 6 a3 g5 (6...h4 7 h3 g5 8 fxg5 fxg5 9 f3! \$\delta d6 10\$ b4! \$\delta c6 11\$ a4 \$\delta d6 12\$ b5 a5 13 b6 \$\delta c6 14\$ b7 \$\delta xb7 15 \$\delta xd5 +--) 7 f5! g4 8 b4! \$\delta b5 9 \$\delta xd5! \$\delta a4 10 \$\delta c6! \$\delta xa3 11 \$\delta xf6! +--.

b2) 3...g5!? 4 b4 \$b5 5 \$xd5! \$xb4 6 \$e6! \$a3 7 \$xf6! \$xa2 8 \$xg5! leads to a winning queen ending, e.g. 8...\$b3 9 f4! \$c4 10 f5 \$d5 11 \$f6 a5 12 \$e7 a4 13 f6! a3 14 f7! a2 15 f8 \$\existsymbol{w}! a1 \$\existsymbol{w}! f7++-.

2 \$\preceq\$c3 \$\preceq\$c7 3 \$\preceq\$d4 \$\preceq\$c6 4 f4 g6 5 b3 \$\preceq\$d6 6 a3 f5 7 b4 axb4 8 axb4! \$\preceq\$c6 9 h4 \$\preceq\$b5 10 \$\preceq\$xd5! \$\preceq\$xb4

Now the advantage of an outside passed pawn becomes obvious: the white king is far closer to the kingside pawns.

11 \$\pmese5\$ \$\pmesec4\$ 12 \$\pmesec6\$ 6 \$\pmesec4\$ 5 13 \$\pmesec6\$ 7 \$\pmesec6\$ 14 \$\pmeseck\$ xh7 \$\pmesec6\$ 15 f3 \$\pmesec6\$ 6 16 \$\pmesec6\$ 8 1-0



L.Winants – L.Riemersma

Dordrecht 1988

It is a little bit surprising that White isn't able to win here:

1 b4!?

1 h4 a5 2 a3 \$\preceq\$c5 3 \$\preceq\$e4 a4! 4 bxa4 \$\preceq\$c4! 5 a5! d3 6 \$\preceq\$e3! \$\preceq\$c3! 7 a6! d2! 8 a7! d1\$\precey\$! 9 a8\$\preceq\$! =.

1...h4

1...\$c6 2 a4 (2 \$\prec\$xd4 \$\prec\$b5! 3 \$\prec\$c3 \$\prec\$a4!=) 2...\$\prec\$d5! 3 h4 \$\prec\$e5! 4 b5 axb5! 5 axb5 \$\prec\$d5!=,

1...\$e5? 2 h4! \$\d5 3 a3! \$\d5 4 a4!\$
\$\d5 5 a5! \$\d5 (5...\$\d5 6 b5! +-) 6

\$\psix44 \psid6 (6...\$\psib5 7 \psic3! \psic6 8 \psic4! \$\psid6 9 b5 axb5+ 10 \psixb5! \psic7 11 \psic5 +-) 7 \psic4 \psic6 6 (7...\$\psic6 8 \psif5 +-) 8 b5 +-.

2 a3 \$\psie5 3 a4 \$\psid5! 4 a5!? \$\psic6 5 \$\psix44 \$\psid6?\$

For 5...\$25! 6 \$23! \$26! = \$86\$ the game.

6 **\$**c3?

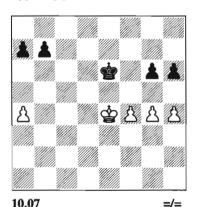
6 \$\preceq\$e4 \$\preceq\$c6 7 \$\preceq\$f4 +- would have won, as White is one tempo ahead.

6...\$c6 7 \$c4 \$d6! 8 b5 axb5+! 9 \$xb5 \$c7! 10 \$c5 \$b7! =

Of course White would have won easily if the h-pawns had been g-pawns.

C) Spread Majorities

Usually a short majority is better than a longer one (especially a two versus one majority because after its mobilization there is either a protected passed pawn or no opposing pawn left).



With his example Levenfish wanted to demonstrate the strength of an outside passed pawn, which is to be created by ...b6, ...a6 and ...b5. However, the active white king just manages to neutralize this

Levenfish, 1950

advantage. White though, as we see in the main line by Maizelis, has to act very precisely:

1...h5!?

1...b6 2 f5+ (2 h5 = Averbakh) 2...gxf5+ 3 gxf5+! \$\psi f6\$ (3...\$\psi d6\$ 4 h5 a6 5 \$\psi d4\$ b5 6 axb5! axb5! 7 f6 \$\psi e6\$ 8 \$\psi c5\$ \$\psi xf6\$ 9 \$\psi xb5! \$\psi g5\$ 10 \$\psi c4! = reaches the saving haven f1 just in time) 4 \$\psi d5\$ a6 (4...h5? 5 \$\psi c6! \$\psi xf5\$ 6 \$\psi b7! +-) 5 \$\psi c6\$ b5! 6 axb5! axb5! 7 \$\psi xb5! =.

2 f5+ gxf5+!

Not 2...\$\preceptrol{\preceptr

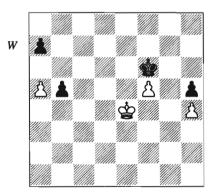
3 gxf5+! \$6 4 a5!

4 \$\preceq\$f4? b6! 5 \$\preceq\$e4 a6! 6 \$\preceq\$d5 \$\preceq\$xf5 7 \$\preceq\$c6 b5! 8 axb5 axb5! 9 \$\preceq\$xb5 \$\preceq\$g4! -+.

4 \$\preceq\$d5? \$\preceq\$xf5! 5 a5 (5 \$\preceq\$d6 \$\preceq\$g4 6 \$\preceq\$c7 \$\preceq\$xh4 7 \$\preceq\$xb7 a5! \$\top\$ and then:

a) 5...b5? 6 a6! \$\preceq\$g4 (for 6...b4 7 \$\preceq\$c4! \$\preceq\$e4 8 \$\preceq\$xb4 \$\preceq\$d5 9 \$\preceq\$b5 \$\preceq\$d6 10 \$\preceq\$c4 \$\preceq\$c6 11 \$\preceq\$d4! \$\preceq\$b6 12 \$\preceq\$d5! \$\preceq\$xa6 13 \$\preceq\$c6! =, see the main line) 7 \$\preceq\$c5! \$\preceq\$xh4 8 \$\preceq\$xb5! \$\preceq\$g5 9 \$\preceq\$c6! =; see 3.07.

b) 5...\$\psig4! 6\$\psid6\$b5! 7\$\psic5\$a6! --+.
4...b5 (D)



5 a6!!

Essential precision, motivated by Bähr's Rule and the counterplay against the black a-pawn.

Not 5 axb6? axb6! -+; nor 5 \$\d5? a6! (5...\daggerxf5? 6 a6! =) 6 \daggered e4 b4! 7 \daggered d3 \daggered xf5 8 \daggered c4 \daggered g4 9 \daggered xb4 \daggered xh4! 10 \daggered c5 \daggered g5 11 \daggered b6 h4! -+.

5...b4 6 \$\d4 \$\d2 xf5 7 \$\d2 c4! \$\d2 e5

7...\$\psig4 8 \Psixb4! \Psixh4 9 \Psic5 \Psig5 10 \Psic6! =.

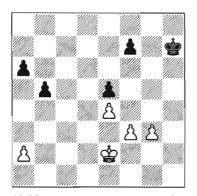
The position would be won according to Bähr's Rule if Black could leave his apawn at a7. However, in order to get away from the edge of the board he has to move the a-pawn.

13...\$\perparts 5 14 \perparts 6 14...\$\perparts 4 15 \perparts 6 24! \perparts 3 16 \perparts 5 =.

15 \perparts 64! \perparts 4 16 \perparts 6 16 \perparts 6 17 \perpart

16...\$b3 17 \$b6! \$c4 18 \$xa6 =

After one couldn't force a win in the previous example, now the 2-1 majority is successful despite the bad king position:



10.08 /+ A.Liebstein – Ju.Bolbochan Mar del Plata Z 1951

The winning plan falls into two phases.

1...a5 2 \(\pm d3 \) \(\pm g7 3 \) \(\pm c2 \) \(\pm f8 4 \) \(\pm c3 \)

\(\pm e7 5 \) \(\pm c2 \) \(\pm d6 6 \) \(\pm d3 \) \(\pm c5 \)

The first phase of the plan is completed while White couldn't do anything without weakening himself. Now though, the black king threatens to get to d4, which has to be prevented by White because further passive play isn't possible any more.

7 f4

7 \$\preceq\$c3 b4+ 8 \$\preceq\$b3 \$\preceq\$b5! 9 f4 a4+ 10 \$\preceq\$c2 \$\preceq\$c4 11 fxe5 \$\preceq\$d4! -+.

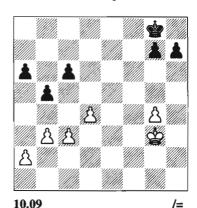
7...f6 8 \(c3

8 fxe5 fxe5! -+. Now White's outside passed pawn becomes a prey of the black king because the white king can't support it.

8...**⊈**d6

After White has opened up an entry route, the black king now gets back to the kingside:

For a detailed explanation of the very important practical question of which majority is the 'better' one, we now deal with two further examples.



Y.Hellwing – J.Nunn London Lloyds Bank 1990 In the first case Black has the majority on the short wing and thus is better off. Against precise defence this advantage is not sufficient to win because the white king is more active and his pawns on the queenside can't be so easily attacked.

1...\$f7 2\$f4\$e63\$e4464 a4 g65
c4 h5 6 gxh5 gxh5 7\$f4\$f6 8 a5 b4 9
\$e4!\$g5

- 9...h4!? 10 \$\psi 64! \h3 11 \$\psi 93! \$\psi 65 12\$
 \$\psi xh3! \$\psi e4 13 \d5! \cxd5! 14 \c5! \$\psi e5 15\$
 \$\psi g4 \d4 16 \$\psi g3 \$\psi d5 17 \$\psi 64:\$
- a) 17...\$\psic6 18 \psicf f3! = (18 \psicf e4?)\$
 \$\psixc5! 19 \psicf f3 d3 20 \psicf e3 d2! 21 \psicf e2\$
 \$\psid5! 22 \psid1 \psicf e4 23 \psixd2 \psid4! -+).
- b) 17...\$\preceq\$xc5 18 \$\preceq\$e4! \$\preceq\$b5 19 \$\preceq\$xd4 \$\preceq\$xa5 20 \$\preceq\$c5 stalemate.

10 **\$e5**?!

10 d5 cxd5+! 11 \$\preceq\$xd5! h4 12 \$\preceq\$e4! \$\preceq\$g4! 13 \$\preceq\$e3! \$\preceq\$g3 14 c5! =.

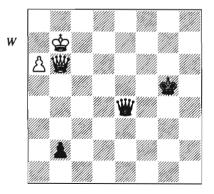
10...h4! 11 d5! cxd5 12 cxd5! \$g6! 13 \$e6! h3! 14 d6! h2! 15 d7! h1\#! 16 d8\#!

The queen ending which has arisen should be a draw, even though White still has to play accurately.

16...\\psi h3+ 17 \psi e7 \psi e3+ 18 \psi d7 \psi xb3 19 \psi b6+ \psi g5 20 \psi xa6 \psi d5+ 21 \psi c7

21 ₩d6 ₩xa5 =.

21...b3 22 \begin{array}{c} \begin{array



25 c7?

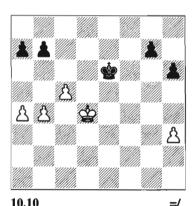
The beautiful stalemate idea 25 \$\frac{a}{2}\$?!! was mentioned by John Nunn in his book John Nunn's Best Games: 25...bl (or 25...) (or 25...) 4 \$\frac{a}{2}\$ a?! =) 26 \$\frac{a}{6}\$ f6+ \$\frac{a}{2}\$ g4 27 \$\frac{a}{2}\$ h4+ \$\frac{a}{2}\$ 28 \$\frac{a}{2}\$! =.

25...\\cup c2+ 26 \\cup d7

26 \$\dots b1\$\dots 27 \$\dots xb1\$ \$\dots xb1+! also wins for Black.

26...b1數 27 數e3+ 象g4 28 數d4+ 數e4 29 數g7+ 象f3 0-1

Concerning the second position we could use an analysis by Dr Hübner that was published in *CBM 41* with the title 'Abfall' (rubbish):



0.10 M.Bier – A.Schwarz *Leipzig 1879*

The white king is more active than its black colleague and his majority is far advanced. But due to Black's 2-1 majority this shouldn't be enough:

1 a5?!

1 b5!? is the more natural move and would have caused problems for Black as well. 1...a5! (1...a6? 2 c6! bxc6 3 bxa6! +-; 1...\$\dot{d7}? 2\$\dot{e5}\$\dot{e7} 3 a5\$\dot{d7} 4\$\dot{f5}\$+-; 1...g5? 2 a5! +- see the game) and then:

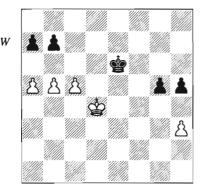
- a) 2 \$\psie4 g6 (2...g5?! 3 b6 \$\psid7! 4\$\psif5! \$\psic6! 5 \$\psig6! \$\psixc5! 6 \$\psixh6!\$\$
 \$\psixb6! 7 \$\psixg5! \$\psic5 8 h4! b5! 9 h5! b4!\$
 10 h6 b3! 11 h7 b2! 12 h8\$\psi b1\$\psi! 13\$\psie5+\$\psic6 14 \$\psixxs5 =) 3 h4 (3 c6 bxc6! 4 bxc6! \$\psid6! 5 c7! \$\psixc7 6 \$\psic5! \$\psic6 7\$\$
 \$\psif6! \$\psic5 8 \$\psixg6! \$\psib4! 9 \$\psixh6 \$\psixxs4!\$
 10 \$\psig7 =) 3...g5 4 hxg5 hxg5! 5 c6 bxc6!\$
 6 bxc6! \$\psid6 7 \$\psif5 \$\psixc6 8 \$\psixxs5! =.\$
- b) 2 bxa6 bxa6! 3 a5 g5 4 \$\text{\$\psi\$}\equiv 4! h5! 5 c6 \$\psi\$ d6 6 \$\psi\$ f5 g4! 7 hxg4 hxg4! 8 \$\psi\$ xg4 \$\psi\$ xc6 9 \$\psi\$ f4 =.

1...g5?

1...a6 2 b5 (2 \$\pi e4? g5 3 b5 axb5! 4 c6 \$\pi d6! 5 cxb7 \$\pi c7! 6 a6 h5 -+; 2 c6 bxc6! 3 \$\pi c5! \$\pi d7! 4 \$\pi b6! g5 5 \$\pi xa6! \$\pi c7!? 6 b5! cxb5! 7 \$\pi xb5! h5 8 \$\pi c4 h4!? 9 \$\pi d3 g4! 10 \$\pi e2 g3 = - \see 6.01H) 2...axb5 (2...\$\pi d7 3 c6+ \pi xc6 4 \pi xa6! \$\pi c7 5 \$\pi c5 g5 6 a7! \$\pi b7! 7 a8 \$\pi + \pi xa8! 8 \$\pi xc6! h5 9 \$\pi d5 =) 3 c6! \$\pi d6! 4 cxb7! \$\pi c7! 5 \$\pi c5 (5 a6? would be wrong because after 5...g5! -+ the black passed pawns go through) 5...g5 6 \$\pi xb5 \pi xb7! (6...h5? 7 \$\pi a6! \$\pi b8 8 \$\pi b6 g4 9 a6 gxh3 10 a7#) 7 \$\pi c5 = .

2 b5! **\$\d**7

After 2...h5 (D) follows a worthwhile 'breakthrough of the majority':



3 c6 bxc6 (3...b6 4 axb6! axb6 5 **2**e4! +-; 3...**2**d6 4 cxb7! **2**c7 5 a6! +-) 4 b6! axb6 5 a6! +-.

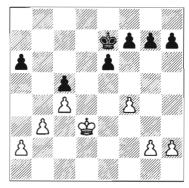
3 **2**e5 h5

3...a6 4 bxa6! bxa6 5 \$f5 +-.

4 \$\,^{5}! \, \text{g45 hxg4! hxg46 \text{ \text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\$}}\$} \} \} \} \text{hxg46 \text{\$\text{\$\text{\$\text{\$\$\text{\$\$}}\$} \} \} \text{\$\text{\$\text{\$\$}} \} \text{\$\text{\$\text{\$\$\text{\$\$}}\$} \} \text{\$\text{\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\text{\$\text{\$\text{\$\$\ext{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\text{\$\$\exitt{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\xitt{\$\$\xitt{\$\$\text{\$\$\exitt{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\exitt{\$\$\text{\$\$\$}}\$}}} \end{text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\$}\$}}}} \end{text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\exitt{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\exitt{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$\text{\$\$

7 \$\psi f 5 \$\psi d 7 8 \$\psi f 6 a 6 9 bxa 6 bxa 6 10 \$\psi e 5! \$\psi c 6 11 \$\psi d 4! +- 1-0\$

What happens if the majority can't be mobilized so easily?



10.11 /= T.Sammalvuo – P.Cramling Reykjavik 1995

White has great trouble creating a passed pawn on the queenside and thus has to proceed very accurately:

1...a5 2 \dot{e3?!

2 a3!? f6 3 \$\disc3!\$ e5 4 fxe5! (4 f5? e4 5 \$\disc3!\$ e6 4 6 \$\disc3!\$ e5 1 7 g4 h6!? 8 h3 h5! 9 a4 h4! -+) 4...fxe5! 5 \$\disc3!\$ (5 b4? cxb4+! 6 axb4 a4! -+) 5...\$\disc6 6 \$\disc4!\$ h5 7 g3! g6 8 h3 \$\disc3!\$ d6 9 g4 hxg4 10 hxg4! \$\disc6!\$ 11 g5 =.

2...h5!? 3 \$f3 \$d6 4 \$e3 f6 5 g3 g6 6 \$e4 \$e7!?

Or:

a) 6...e5 7 fxe5+! fxe5! 8 h3 \$\docume{2}\$e6! 9 g4 hxg4 10 hxg4! and now:

a1) 10...\$\psi6? 11 \$\psid5! \$\psig5 12 \$\pxe5!\$\$ \$\pxg4 13 \$\psid5 \$\psif4 14 \$\pxc5! g5 15 \$\psib5!\$:

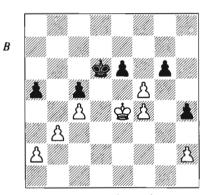
a11) 15...a4 16 b4! ± (16 bxa4? g4! 17 a5 g3! 18 a6! g2! 19 a7! g1\(\mathbf{w}\)! 20 a8\(\mathbf{w}\)! \(\mathbf{b}\)! b1+! 21 \(\mathbf{c}\)c5 \(\mathbf{w}\)g1+! =).

a12) 15...g4 16 c5! a4!? 17 b4! (17 \$\preceq\$xa4?? \$\preceq\$e5! -+; 17 c6? axb3! 18 axb3! g3! 19 c7 g2! 20 c8豐 g1豐! 21 豐c4+ \$\preceq\$f3! =) 17...g3 18 c6! g2 19 c7! g1豐 20 c8豐! ±.

a2) 10...\ddeltad6! =.

b) 6...h4 and then:

b1) 7 g4?! f5+8 gxf5! (8 \$\delta f3? \$\delta e7!! wins for Black, since White is short of moves; in order to delay further the exchange on f5, either the a-pawn or the h-pawn would have to move, in both cases with fatal consequences) and here (D):



b11) 8...exf5+ 9 \$\dd3! \$\dd96 10 a3!\$ \$\dd96 11 \$\deqcas\$ (11 b4? cxb4 12 axb4 axb4! 13 c5 \$\dd96 e6! 14 \$\dd9c4\$ g5! 15 fxg5 f4! 16 g6 f3! 17 g7 \$\dd9c\$ f7! 18 \$\dd9c\$ d3 f2 19 \$\dd9c\$ e2 b3 -+) 11...g5 12 fxg5+! \$\dd9c\$ xg5 13 b4! cxb4+ 14 axb4! axb4+ 15 \$\dd9c\$ xb4! f4 16 \$\dd9c\$ c3 with a draw.

b12) 8...gxf5+9 \$\psi\$f3 e5 10 \$\psi\$e3! \$\psi\$e6 11 \$\psi\$f3! exf4 12 \$\psi\$xf4! \$\psi\$f6! 13 a3! (13 h3? \$\psi\$e6! 14 \$\psi\$g5 \$\psi\$e5! 15 \$\psi\$xh4 f4 -+) 13...\$\psi\$6 14 \$\psi\$g5! \$\psi\$e5 15 \$\psi\$xh4! \$\psi\$f4 and now:

b121) 16 h3:

b1211) 16... 堂e4 17 堂g3! 堂e3 18 堂g2! f4 19 堂f1! 堂f3! 20 h4! 堂g4! 21 堂f2 堂xh4! 22 b4! axb4 23 axb4! cxb4! 24 c5! b3 25 c6! b2 26 c7! b1豐 27 c8豐! =.

b1212) 16...\$\psi\$f3 17 b4! (17 \$\psi\$55; \$\psi\$e4! 18 h4 f4! -+) 17...axb4 18 axb4! cxb4! 19 c5! \$\pi\$.

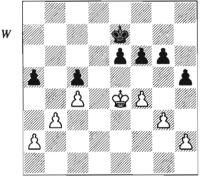
b1213) 16... \$\delta e3 17 b4! axb4 18 axb4! cxb4 19 c5! b3 20 c6! b2 21 c7! b1 \$\delta 22\$ c8 \$\delta ! \overline{\pi}.

b122) 16 \$\displays a \displays 3 17 b4! cxb4 18 axb4! axb4 19 c5! b3 20 c6! b2 21 c7! b1\$\displays 22 c8\$\displays aff1+ (22...\$\displays d3 23 \$\displays c4!!\$\displays e2+24\$\displays d3+!\$\displays cd3! 25\$\displays g3 \$\displays e3 26\$\displays g2!=) 23\$\displays h4\$\displays f2+24\$\displays g5!\$\displays g1+25\$\displays f6!\$\displays d4+\$\frac{1}{2}\$.

b2) 7 gxh4! f5+ 8 \$\psie e3\$ e5 9 a4 \$\psie e6\$ 10 \$\psi f3! =.

c) 6...f5+ 7 \$\displays a4 8 gxh4! e5 9 a4 \$\displays e6 10 \$\displays f3! =. After ...e4+ there is no way into the white fortress and 10...exf4? even loses due to White's spare tempo h3: 11 \$\displays xf4! \$\displays f6 12 h3! \$\displays e6 13 \$\displays g5! \$\displays e5 14 \$\displays xg6! +-.

Now we return to the main line after 6...\$\delta e7 (D):



7 h3?

7 a4? \$\delta 68 h4 e5! 9 f5 gxf5+! 10 \$\delta xf5 \delta 67 11 g4 e4 12 \$\delta xe4 hxg4! 13 \$\delta f5! \to +.

7 \$\phie3!? a4 (7...h4 8 gxh4! \$\phid6 9\$ \$\phie4! f5+ 10 \$\phie3 e5 11 a4=) 8 bxa4 \$\phid6 9\$ h3 \$\phic6 10 \$\phie4 \$\phib6! 11 g4! hxg4! 12 hxg4! \$\phia5! 13 g5 fxg5! 14 fxg5! \$\phixa4! 15 \$\phie5 \$\phib4! 16 \$\phixe6 \$\phixc4! 17 \$\phif6=.\$

7...**\$**d6 8 a3

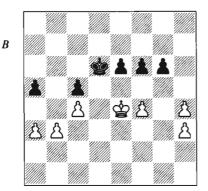
8 a4 f5+ 9 \$\pi\$8 h4! -+; 8 h4 e5! 9 fxe5+ (9 f5 gxf5+! 10 \$\pi\$xf5 \$\pi\$e7 11 g4 e4 12 \$\pi\$xe4 hxg4! 13 \$\pi\$f4 f5! -+) 9...fxe5! 10 \$\pi\$e3 \$\pi\$e7 11 \$\pi\$e4 \$\pi\$e6! 12 a3 \$\pi\$d6! 13 \$\pi\$e3 \$\pi\$e7 14 \$\pi\$f3 \$\pi\$f6 15 \$\pi\$e4 \$\pi\$e6! 16 a4 \$\pi\$d6! 17 \$\pi\$e3 \$\pi\$e7 18 \$\pi\$f3 \$\pi\$f6 19 \$\pi\$e4 \$\pi\$e6! 20 \$\pi\$e3 \$\pi\$f5! 21 \$\pi\$f3 e4+ 22 \$\pi\$e3 \$\pi\$e5! -+.

8...h4!?

The first pawn lever destroys White's kingside pawn-structure.

9 gxh4 (D)

9 g4 f5+! 10 \$\precent{2}\$f3 e5 11 gxf5 gxf5! 12 \$\precent{2}\$e3 \$\precent{2}\$e6 13 \$\precent{2}\$f3 e4+ 14 \$\precent{2}\$e3 a4! -+.



9...f5+

9...a4?? 10 bxa4! \$\pic6\$ (10...f5+ 11 \$\pif3\$ \$\pic6\$ 12 h5 gxh5 13 \$\pig3\$! +--) 11 f5 exf5+ 12 \$\pif4\$! \$\pib6\$ 13 h5! gxh5 14 \$\pixf5\$! \$\pia5\$ 15 \$\pixf6\$! \$\pixa4\$ 16 \$\pic6\$ \$\pixa3\$ 17 \$\pid6\$! \$\pib4\$ 18 h4! +--.

10 \$\psi d3 e5! 11 \$\psi e3 \$\psi e6!

11...exf4+?? 12 \$\preceq\$xf4! \$\preceq\$e6 13 \$\preceq\$5! \$\preceq\$e5 14 \$\preceq\$xg6! +--.

12 \place{12} f3

12 fxe5 \$\preceq\$xe5! 13 \$\preceq\$f3 f4! 14 \$\preceq\$f2 \$\preceq\$e4! -+; 12 a4 exf4+ 13 \$\preceq\$xf4 \$\preceq\$f6! 14

h5 gxh5! 15 h4 \$\precede{\precede}\end{array}e6! 16 \$\precede{\precede}\end{array}g5 \$\precede{\precede}\end{array}e5! 17 \$\precede{\precede}\end{array}g5 \$\precede{\precede}\end{array}e5! 17

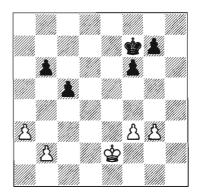
12...e4+ 13 de3 a4!

This pawn lever on the other wing opens up the way for the black king. Not, however, 13...\$\perp\$f6? 14 a4! \$\perp\$g7 15 h5!? \$\pi\$h6 (15...gxh5 16 h4 =) 16 hxg6! \$\pi\$xg6 17 \$\pi\$f2 \$\pi\$h5 18 \$\pi\$g3 = because 18...e3?? 19 \$\pi\$f3 \$\pi\$h4 20 \$\pi\$xe3 \$\pi\$xh3 21 b4 +- takes it on the chin.

0 - 1

D) Even Distribution of Pawns

Now we shall discuss positions where the pawns on both wings are distributed in an even but not completely symmetrical way:



10.12 A.Miles – J.Klinger Biel 1986

Though White has the advantage of the more outside candidate on the a-file, Black is able to draw with precise play:

1...**⇔**e6

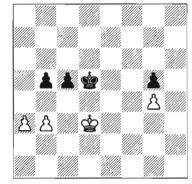
1...b5 2 b3 \$\dispec 6 3 a4 c4! 4 axb5 cxb3! draws.

2 \$\d3 \$\d5 3 b3 g5 4 \$\d5 3 f5 5 \$\d3 b5 6 g4 fxg4

- 6...f4 7 a4 \$\pic6 (7...bxa4 =) 8 \$\pic4 e4 (8 axb5+ \$\pixb5! 9 \$\pic3 \pib6 10 \$\pic4 \pic6! =) and now:
- a) After 8...\$\pib6? White is too fast: 9
 axb5! \$\pixb5\$ 10 \$\pif5! \$\pib4\$ 11 \$\pixg5!\$
 \$\pixb3\$ 12 \$\pif5\$ c4 13 g5! c3 14 g6! c2 15
 g7! c1\$\pi\$ 16 g8\$\pi+! \$\pib4\$ 17 \$\pib8+ \$\pia3\$
 18 \$\pixf4\$ +--.
- b) 8...bxa4 enables Black to launch a timely counter-attack: 9 bxa4! \$\displace\$b6 10 \$\displace\$d5 \$\displace\$a5! =.
- c) 8...c4 9 axb5+! \$\preceq\$xb5! 10 bxc4+! \$\preceq\$xc4! 11 \$\preceq\$f5 \$\preceq\$d3 12 \$\preceq\$xg5 \$\preceq\$e3! =.

7 fxg4! (D)

В



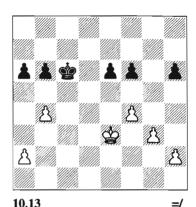
7...**☆**e5?

This allows the creation of a winning outside passed pawn. Black should play 7...\$\preceq 6 8 \$\preceq e 4 \$\preceq d 6\$:

- a) 9\$\psif5?\$\psid5! 10\$\psixg5 c4 11 bxc4+ bxc4! 12\$\psif4\$\psid4 13\$\psif3\$\psid3! 14\$\psif2 (14 g5 c3! -+; Black immediately wins the white queen by ...\psif1+ and ...\psig1+) 14...c3! -+.
- b) 9 a4 c4! 10 axb5! cxb3! 11 \$\display\$d3! and draws.
 - 8 a4! c4+
- 8...bxa4 9 bxa4! \$\ddot d5 10 \$\ddot c3 c4 11 a5 wins for White.

9 &c3! 1-0

And finally a very difficult example from grandmaster practice:



0.13 = R.Vaganian – Z.Vranesić Toronto 1990

The problems arise from the great number of possibilities; often it is not clear whether the black king should be activated or not:

1 **\$**e4

Or:

a) 1 g4:

- a2) 1...f5? 2 g5 hxg5 3 fxg5! \$\display\$ d6 4 \$\display\$f4! \$\display\$e7 5 h4! \$\display\$f7 6 h5! \$\display\$g7 7 \$\display\$e5 a5 8 bxa5 bxa5 9 g6 a4 10 a3! +— leaves Black in a fatal zugzwang.
 - a3) 1... \$\dd 5 2 h4:

a31) 2...a5? 3 bxa5! bxa5 4 h5 e5 (4...\$\psi 65 g5 \$\psi 67 6 g6 +-) 5 \$\psi f3\$ exf4 (5...\$\psi 46 6 g5! fxg5 7 fxg5! \$\psi d3 8 gxh6 e4+9\$\psi f2! +-) 6 \$\psi xf4!\$\psi 67 a4!\$\psi 63\$ \$\psi d3 \$\psi d6 10 \$\psi d4!\$\$\psi 611\$\$\psi e4!\$\$\psi 67 12 \$\psi d5!\$\$\psi d7 13 \$\psi c5!\$\$\psi 614\$\$\$\psi b5 \$\psi e5 15 \$\psi xa5!\$\$\$\psi f4 16 \$\psi b4\$\$\$\$\psi xg4 17 a5 +-.\$\$

a32) 2...f5? 3 g5! hxg5 4 h5 gxf4+ 5 \$\prec{1}{2}\$xf4! e5+ 6 \$\prec{1}{2}\$xf5! e4 7 \$\prec{1}{2}\$f4! wins for White.

a33) 2...**\$**d6 =.

b) 1 f5 (P.Kühn) is also playable, but presents Black with fewer problems. There are even three different drawing methods:

b1) 1...e5 2 $ext{$^\circ$e4}$ $ext{$^\circ$d6 3 g4 $^\circ$e7 4 h4} \\ ext{$^\circ$f7 5 g5} = (5 \text{$^\circ$d5? h5!} -+).$

b2) 1...\$\Delta 65 2 fxe6 \Delta xe6! 3 \Delta f5! 4 g4!? fxg4! 5 \Delta xg4 \Delta f6! 6 \Delta h5 \Delta g7! 7 a4 \Delta h7! 8 h3 \Delta g7 9 h4 \Delta h7 10 \Delta g4:

b21) 10...a5? 11 bxa5! (11 b5? \$\pig6!\$
12 h5+ \$\pig7!\$ 13 \$\pif5 \$\pif7!\$ =) 11...bxa5
12 h5! \$\pig7\$ 13 \$\pif5!\$ \$\pif7\$ 14 \$\pie5!\$ \$\pie7\$
15 \$\pid5!\$ +-.

b22) 10...\$g6! 11 h5+:

b221) 11...\$f6? 12 \$f4!:

b2211) 12...\$\phie6 13 \$\phie4! \$\phif6 (13...b5)\$
14 a5! \$\phid6 15 \$\phif5 +-)\$ 14 \$\phid5! \$\phig5 15\$
\$\phie6! \$\phixb5 16 \$\phixb6 \$\phig4 17 b5 axb5 18\$
\$\phixb5! +-.

b2212) 12...a5 13 b5! \$\textstyle 6 14 \$\textstyle 64! +- and the white king penetrates decisively.

b222) 11...\$\psig7! 12 \$\psig3 \$\psig8 13 \$\psif4\$ \$\psif8! 14 \$\psie4 \$\psie8! =.

b3) 1...exf5 2 \$\frac{1}{2}\$ \$

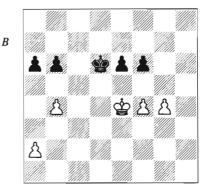
1...h5

1...\$d6 =.

2 h3 &d6 3 g4 hxg4!

3...\$e7? 4 g5! (4 gxh5? \$f7 =) 4...\$f7 5 gxf6 \$xf6 6 h4 a5 7 b5 +-.

4 hxg4! (D)



4...a5?!

This makes the b6-pawn easier to attack. More accurate was 4...\$\precepe 7!? 5 a4 \$\precept d7 6 \$\precepe d4 \$\precepe 67 7 a5 bxa5 8 bxa5! \$\precepe d6 9 g5 fxg5 10 fxg5! e5+ 11 \$\precepe 64 \$\precepe 66 12 g6! \$\precepe f6! 13 g7 \$\precep xg7 14 \$\precepe xe5 =.

5 a3!?

5 bxa5 bxa5! 6 a4 \$e7 7 \$d4 \$f7 8 \$c5 e5 =.

5...axb4 6 axb4! **\$**e7

Black must not give more squares away: 6...b5? 7 d4! c6 8 g5! fxg5 9 fxg5! d6 10 g6 +-.

7 **⇔**e3

7 g5 \$f7 8 gxf6 \$xf6! 9 b5 \$f7 =.
7...\$f7 8 \$d3 \$g7 9 \$c4 \$g6 10

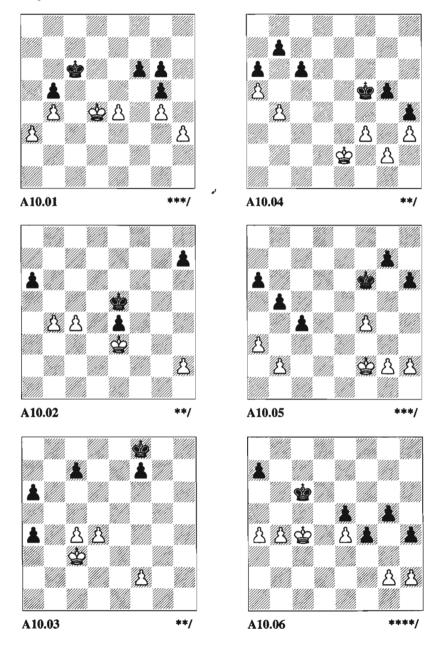
\$\frac{1}{6} \text{ \$\sqrt{6}\$ \$\sqrt{6}\$ \$\sqrt{7}\$ \$\sqrt{6}\$ \$\

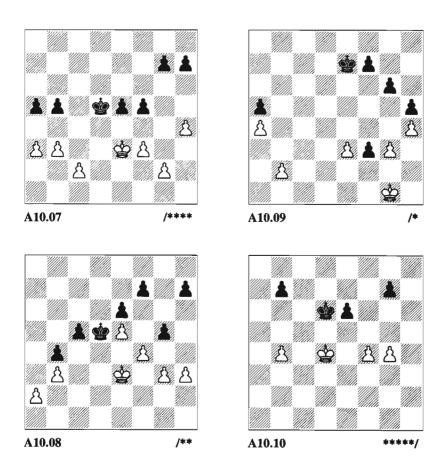
☆g5! 13 全f5! 全f4! 14 g5 e4! 15 g6 e3! 16 g7 e2! 17 g8響 e1響! 18 響b8+全g4 19 響xb6 = the position is a theoretical draw, but in practice there would still be some winning chances.

11 gxf5+! \$\preceq\$xf5 12 \$\preceq\$xb6! \$\preceq\$xf4 13 \$\preceq\$c5 e5 14 b5! e4 15 b6! 1-0

The b-pawn will promote with check.

Chapter 10 Exercises





Solutions to Chapter 10 Exercises

A10.01 G.Juares Flores – K.El Harazy, Dubai OL 1986

The extra pawn can't be realized: $1 \, \text{$\psi_c 3!}$?

1 e5?! f5! 2 e6! \$\preceq\$d6! 3 e7! \$\preceq\$xe7 4 \$\preceq\$e5! f4! 5 \$\preceq\$e4 \$\preceq\$e6 6 \$\preceq\$d4! f3 7 \$\preceq\$e3! \$\preceq\$d5 8 \$\preceq\$xf3! \$\preceq\$c4 (8...\$\preceq\$d4 9 \$\preceq\$g3 =) 9 \$\preceq\$e4 \$\preceq\$b3! 10 \$\preceq\$e5! =.

1...\$d6! 2 \$b3

2 \$\displays 2 \displays 65! 3 a4 \$\displays xe4! = (3...bxa4? 4 b5! +-); 2 \$\displays 44 \$\displays 6! =.

2...\$e5! 3 a4! \$xe4!

3...bxa4+? 4 \(xa4! \) xe4 5 b5! +-.

4 a5

After 4 axb5 &d5 5 &c3 f5 there is not enough left for a win.

4...\$d5! 5 \$c3 f5?

This destroys the fortress that was there for the taking: 5...\$\precepce c6 6 \$\precepc d4 \$\precepce d6!\$ 7 \$\precepce e4 \$\precepce c6! =.

6 gxf5! gxf5 7 항d3 항c6 8 항e3 항d5 9 항f3 항d6 10 항g3 항d5

10...f4+ 11 \$\text{\$\psi}\$g4 \$\text{\$\psi}\$d5 12 \$\text{\$\psi}\$f3 \$\text{\$\psi}\$d6 13 h4 +-.

11 h4! gxh4+ 12 \$\psi\$xh4 \$\psi\$c6
12...f4 13 \$\psi\$g4 \$\psi\$e4 14 a6! +-.
13 \$\psi\$g5 1-0

A10.02 Damele, 1966

The advantage of the outside majority is just sufficient for a win:

1 h3!

1 b5? axb5! 2 cxb5! \$\ddot d5! 3 b6 \$\ddot c6! 4 \$\ddot xc4 \$\ddot xc6! =.

1 h4? h5! 2 b5 (2 c5 室d5! 3 室f4 室d4! 4 c6 e3! 5 室f3 室d3! 6 c7 e2! 7 c8豐 e1豐! 8 豐xa6+ 室c3 =) 2...axb5! 3 cxb5! 室d5! 4 b6 室c6! 5 室xe4 室xb6! =.

1 c5? \$\ddot d5 2 \$\ddot f4 h5 3 h4 \$\ddot d4! =.

1...h6

1...\$f5 2 b5 axb5 3 cxb5! \$e5 4 b6! \$d6 5 \$xe4! \$c6 6 \$f5 \$xb6 7 \$g5! +-; 1...h5 2 h4! \$\f\$ 3 b5! axb5 4 cxb5! \$\forall e5 5 b6! \$\forall d6 6 \$\forall xe4! +-.

2 b5! axb5

 $2...a5 3 c5 $\delta d5 4 c6 $\delta d6 5 $\delta xe4! +-.$

3 cxb5! \$\pm\$d5 4 b6! \$\pm\$c6 5 \$\pm\$xe4! \$\pm\$xb6 6 \$\pm\$f5! \$\pm\$c6 7 \$\pm\$g6! \$\pm\$d6 8 \$\pm\$xh6! \$\pm\$e6 9 \$\pm\$g6! +-

A10.03 G.Markotić – K.Arkell, Cappelle la Grande 1993

Surprisingly White can't achieve more than a draw because the archer Keith Arkell has prepared a devilish trap. The game continued 1 \$\precep\$b4? c5+!! (Arkell's missile! All other moves even lose, e.g. 1...a3? 2 \$\precep\$xa3! \$\precep\$e7 3 \$\precep\$b4 \$\precep\$e6 4 \$\precep\$a5 \$\precep\$f5 5 f3 \$\precep\$f4 6 c5 f5 7 d5 \$\precep\$e5 8 d6! cxd6 9 c6! +-) 2 dxc5 \$\precep\$e7 3 \$\precep\$xa4 \$\precep\$d7 4 \$\precep\$a5 \$\precep\$c6 5 \$\precep\$xa6 f5 0-1. Instead, White can draw as follows:

1 \$b2 \$e7 2 \$a3 \$d7

2...\$e6? 3 \$\preceq\$xa4! \$\preceq\$f5 4 f3! \$\preceq\$f4 5 c5! \$\preceq\$f5 6 \$\preceq\$a5! +--.

3 \$\preceq\$xa4 \$\preceq\$c6 4 \$\preceq\$a5 \$\precep\$b7! 5 d5 \$\precep\$a7! 6 c5

6 f4 f5! 7 \$\displayb4 \displayb6 8 c5+! \$\displaya7! =.

6...\$b7! 7 f4 f5! 8 \$a4 \$a7 9 \$b4 \$b8

9...\$b7? 10 \$a5! \$a7 11 c6! +-.

10 c6 \$\preceq\$a8! 11 \$\preceq\$c5 \$\preceq\$b8! 12 \$\preceq\$d4 \$\preceq\$c8! 13 \$\preceq\$c5 =

A10.04 Instructive example

The majority can't be mobilized so easily because the f-candidate is a backward pawn, but one can break the black blockade by a typical pawn sacrifice:

1 \$f2 \$f4

1...\$\perpensormath{2}\text{e}5 2 g3 \$\perpensormath{2}\text{d}4 3 f4 hxg3+ (3...gxf4 4 gxh4! \$\perpensormath{2}\text{e}4 5 h5 \$\perpensormath{2}\text{f}5 6 \$\perpensormath{2}\text{f}3 +- and the outside passed pawn is decisive) 4 \$\perpensormath{2}\text{xg}3! gxf4+ 5 \$\perpensormath{2}\text{f}4 +-.

2 g3+ hxg3+ 3 \$\preceq\$g2! \$\preceq\$e5 4 \$\preceq\$xg3! \$\precep\$f5 5 f4!

This time White doesn't win back the sacrificed pawn at once but instead gets

the more outside passed pawn. This pawn deflects the black king so far from the queenside that White wins:

5...gxf4+ 6 \$f3 \$e5 7 h4! \$f5 8 h5! \$g5 9 h6! \$xh6 10 \$xf4! \$g6 11 \$e5! \$f7 12 \$d6! \$e8 13 \$c7! \$e7 14 \$xh7+-

A10.05 P.Lukacs – M.Trifunović, Vrnjačka Banja 1988

White immediately has to get his king to the queenside to stop the black king improving his position and blocking the way of the white king:

1 \presection e3!!

1 g4? \$\preceq\$6 (1...a5? 2 \$\preceq\$e3 b4 3 axb4 axb4 4 \$\preceq\$d4 c3 5 bxc3! bxc3 6 \$\preceq\$xc3 h5 7 h3! hxg4 8 hxg4! \$\preceq\$e6 9 \$\preceq\$d4 \$\preceq\$d6! -- (A1.09)) 2 \$\preceq\$e3 \$\preceq\$d5! =.

1...**\$**f5

1...\$\perpensormath{\perpensormath{2}\psi_0}\$ 6 2 \$\perpensormath{2}\psi_0\$ 4 \$\perpensormath{2}\$ 6 3 g4 g6 4 f5 gxf5 5 gxf5! \$\phi_0\$ f6 h4 7 f7 \$\perpensormath{2}\$ e7 8 \$\perpensormath{2}\$ c5! \$\parpensormath{2}\psi_0\$ f7 9 \$\parpensormath{2}\phi_0\$! +-.

2 \$d4! \$xf4 3 \$c5! \$e4

The counter-attack 3...\$\dot\$e3 comes too late: 4 \$\dot\$b6! \$\dot\$d2 5 \$\dot\$xa6! \$\dot\$c2 6 \$\dot\$xb5! \$\dot\$xb2 7 \$\dot\$xc4! \$\dot\$xa3 8 \$\dot\$d5 +--.

4 \$\psib6! \$\pside d5 5 \$\psixa6! \$\psic6 6 \$\psia5\$ \$\psic5 7 h3 h5 8 h4! \$\psic6 9 \$\psib4! \$\psib6 10\$ a4

This dissolves the queenside under circumstances that are very favourable for White.

10...bxa4 11 \$\preceq\$xc4 \$\preceq\$a5 12 \$\preceq\$c5 a3 13 bxa3! \$\preceq\$a4 1-0

A10.06 H.Steiner - O.Bernstein, Groningen 1946

White has a great advantage since the black king has no way to penetrate if he doesn't play ...a5. Against the best defence a difficult queen ending will arise, in which White will have excellent winning chances, but we have not been able to prove a win.

1 &d3! ±

1 h3? g4! 2 hxg4 f3! 3 **\$**d3 fxg2! −+.

1...g4 2 &e2! &b6 3 h3 gxh3!?

3...g3?! 4 \$\preceq\$f3! \$\preceq\$c6 5 \$\preceq\$g4! \$\preceq\$b6 6 \$\preceq\$xh4! +-; 3...f3+?! 4 \$\preceq\$f2 fxg2 5 hxg4 h3 6 g5 +-.

4 gxh3! a5 5 b5!

5 bxa5+? \$\preceq\$xa5 6 \$\precep\$f3! \$\precep\$xa4 7 \$\precep\$g4! \$\precep\$d4 10 \$\precep\$f3! \$\precep\$c5! =.

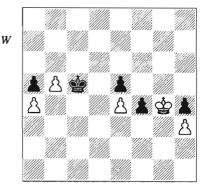
5...全c7 6 全f3 全d6 7 全g4! 全c5 8 全f3

8 ★xh4! ± leads to the game, in which Steiner still tries to provoke mistakes from Black so that he doesn't have to play the queen ending.

8...\$b6 9 \$e2 \$b7 10 \$f2 \$c7

10...\$b6?! 11 \$f3 \$c5 12 \$g4 \$d4 13 b6 +-.

11 호g2 호b7 12 호g1 호c7 13 호h1 호b7 14 호h2 호c7 15 호g2 호b7 16 호f3 호b6 17 호g4! 호c5 (D)



18 \$\pixh4! \$\pid4 19 b6 f3 20 \$\pig3! \$\pie3\$ 21 b7! f2 22 b8\$\pi! f1\$\pi 23 \$\pixe5! \$\pie1+\$ 24 \$\pig4! \$\pid1+\$ 25 \$\pig5\$ \$\pixa4 26 \$\pig3+\$

26 h4? ₩a2 ±.

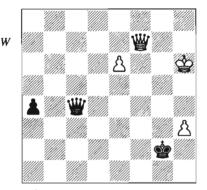
26...**⊈**e2

26...**\$**d4 27 **¥**f2+ **\$**d3 28 e5 ±.

27 e5 ₩e8 28 ₩g4+ �f2?!

After 28...2d3 29 e6 \pm it is not easy to prove a win.

29 \(\psi f5 + \psi g2 \) 30 e6 a4 31 \(\psi f7 \) \(\psi b5 + \) 32 \(\psi h6 \) \(\psi c4 \)(D)



33 ₩g6+?

33 豐g7+! would have won: 33... 全xh3 (33... 全xh2 34 豐e5+ 全g2 35 e7 豐c6+ 36 全g7 豐e8 37 豐d5+ 全xh3 38 豐f7 +-) 34 e7 豐h4+ 35 全g6 豐e4+ 36 全f7! 豐c4+ 37 全f8! 豐c5 38 全g8 豐c8+ 39 全h7! 豐d7 40 豐f7 豐d3+ 41 全g8 豐g3+ 42 豐g7 豐b8+ 43 全h7 豐b1+ 44 豐g6 豐b7 45 豐h6+ 全g3 46 豐g7+ +-.

33...\$h2 34 \fs

34 e7?! **₩**h4+! ∓.

34... **w**e2 35 **s**g6 a3 36 **s**f7 a2 37 **w**f6 **w**a6 38 **w**a1 **w**b7+ 39 e7 **w**d5+ 40 **s**f8 **w**f5+ 41 **s**g7 **w**g5+ 42 **s**f7 ¹/₂-¹/₂

A10.07 M.Adams – C.Lutz, Wijk aan Zee 1995

This example was analysed in detail by Christopher Lutz in *Informator 62* and we have partly used this analysis. Black has the more active king and a space advantage on both wings, and this should be sufficient for a win. He has to proceed very accurately though.

1...a4?

This threatens the familiar breakthrough ...b4 but gives away the win since now White could, after the exchange on a4, gain space on the kingside by playing g4 in order to save time for the race.

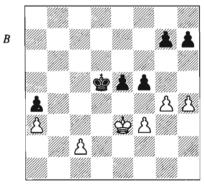
1...b4? 2 axb4 axb4! 3 c4+ is only a draw.

1...h5 2 \$\d3\$ a4 3 bxa4 (3 b4 e4+ 4 fxe4+ fxe4+! 5 \$\dagger e3\$ \$\d5\$ 6 c3 \$\d5\$ d5 7 \$\dagger f4\$ g6 8 g3 \$\d5\$ c4! 9 \$\dagger xe4 \$\dagger xc3! -+; 3 c4+ bxc4+! 4 bxc4+ \$\dagger c5\$ 5 \$\dagger c3\$ e4 -+) 3...bxa4! 4 \$\dagger c3\$ e4 5 fxe4+ fxe4! 6 \$\dagger d2\$ (6 \$\dagger b4?! e3 7 \$\dagger c3\$ \dagger e4! -+) 6...\$\dagger d4 -+ and in the following play Black exchanges the e-pawn for the c-pawn and then captures the a-pawn, winning (since his own pawn is still at a4 he can free himself from the edge of the board by ...a4-a3).

2 h5?

Gaining space on the kingside is basically the right idea but White first had to parry Black's threat to break through.

The right course is 2 bxa4! (not 2 b4? \$\preceq\$c4 3 \$\preceq\$d2 e4 -+) 2...bxa4 3 g4! (3 \$\preceq\$d3? h5! 4 g3 g6 5 c3 \$\preceq\$c5 6 c4 e4+ 7 fxe4 fxe4+! 8 \$\preceq\$xe4 \$\preceq\$xc4! 9 \$\preceq\$e5 \$\preceq\$b3 10 \$\preceq\$f6 \$\preceq\$xa3 11 \$\preceq\$xg6 \$\preceq\$b4 12 \$\preceq\$xh5 a3 -+) and now \$(D)\$:



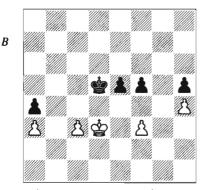
a) 3...g6:

a1) 4 gxf5? gxf5! 5 \$\daggerd d3 (5 h5 \$\daggerd c4! \\ -+) 5...h5:

a11) 6 \$\preceq\$c3 e4! 7 fxe4+ \$\preceq\$xe4! (but not 7...fxe4?, when White escapes by 8 \$\preceq\$d2! \$\preceq\$d4 9 \$\preceq\$e2 \$\preceq\$c3 10 \$\preceq\$e3! =) 8 \$\preceq\$d2 \$\preceq\$d4 -+.

a12) 6 \$\delta 2 \delta 4 \ 8 \delta 2 \delta 4 \ 8 \delta 2 \((8 \cdot 6 3 + \delta 6 4 ! 9 \delta 6 2 \delta 4 \ 10 \delta 6 4 \delta 6 4 ! 11 \delta 6 2 \delta 6 3 12 \delta 6 3 \delta xa3! -+) 8...\delta 6 3 \delta 2 \delta 6 3 12 \delta 6 3 \delta xa3! 11 c5 \delta 6 3! 12 c6 (12 \delta c1 a3 13 \delta 6 4 -+) 12...a3! 13 c7 a2! 14 c8 \delta a1 \delta +! 15 \delta 6 2 \delta 6 2+! and Black wins.

a13) 6 c3 (D).



6...\$\psic 6!! (G.Beikert; 6...\$\psic 5? 7 c4! e4+ 8 fxe4! fxe4+! 9 \$\psix xe4! \$\psix xe4! 10\$\$\psi e3 \$\psi b3 11 \$\psi d3 \$\psi xa3 12 \$\psi c3 = according to B\(\text{ahr}'\)'s Rule; 6...\$\psi d6? 7 \$\psi c4! \$\psi c6 8 \$\psi b4! \$\psi d5 9 c4+! \$\psi c6 10 \$\psi c3\$\$\$\psi c5 11 \$\psi d3! =) 7 \$\psi c4 \$\psi d6! 8 \$\psi d3\$\$\$\psi d5! -+.

a2) 4 \ddd d3! h5 5 g5 =.

b) 3...fxg4 4 fxg4! \$\psi 4 5 \psi 4! \$\psi 3 6\$ \$\psi xc5! \$\psi xc2 7 \$\psi 66! \$\psi b3 8 \$\psi f7! \$\gamma 6\$ (8...\$\psi xa3 9 \$\psi xg7! \$\psi b4 10 \$\psi xh7 a3 11\$ g5! a2 12 g6! a1\$\psi 13 g7! = Grigoriev) 9 \$\psi g7! (9 h5? \$\psi xa3! 10 hxg6 hxg6! 11 \$\psi xg6 \$\psi b4 12 \$\psi f7 a3! 13 g5 a2! 14 g6 a1\$\psi! -+) 9...\$\psi xa3 10 \$\psi xh7! \$\psi b4 11\$ h5! (11 g5? a3! 12 h5 a2! 13 hxg6 a1\$\psi! 14 g7 \$\psi h1 + 15 \$\psi g6 \$\psi e4 + 16 \$\psi h6 \$\psi 8\$ a2! 14 h7! a1\$\psi! 15 h8\$\psi! =) 12 gxh5! (12 g5? h4! -+) 12...a3 13 h6 a2 14 \$\psi g8! a1\$\psi 15 h7! = (3.07).

2...b4! 0-1

Michael Adams resigned due to 3 c4+ \$\displace6 4 \text{ axb4 a3 −+.}\$ A10.08 K.U.Schiffer – B.Finegold, Groningen 1989

Here it was important first to open up a way for the king by ...c4 to make sure the existing white a-pawn isn't dangerous.

1...c4!? 2 bxc4+

2 fxg5 c3 3 \$\Delta\$d3 \$\Delta\$xe5 4 a4 bxa3 5 \$\Delta\$xc3 \$\Delta\$d5 -+; 2 h4 gxh4 3 gxh4 c3 4 \$\Delta\$d3 h5 5 \$\Delta\$e3 c2! 6 \$\Delta\$d2 \$\Delta\$e4 7 \$\Delta\$xc2 \$\Delta\$xf4 8 \$\Delta\$d3 \$\Delta\$g4 -+.

2...\$xc4! 3 \$\frac{1}{2}\$d2 gxf4 4 gxf4 \$\frac{1}{2}\$d4! 5 \$\frac{1}{2}\$c2 \$\frac{1}{2}\$c4 6 \$\frac{1}{2}\$b3 \$\frac{1}{2}\$xf4! 7 \$\frac{1}{2}\$xb4 \$\frac{1}{2}\$xe5! 8 \$\frac{1}{2}\$c5

8 a4 466 9 55 67 -+.

8...f5! 9 a4 f4! 10 a5 f3! 11 a6 f2! 12 a7 f1世! 13 a8世 豐f2+ 14 全b5 豐b2+ 0-1

The exchange of queens can't be avoided: 15 \$\preceq\$c4 \$\psymbol{\psymbol{\psymbol{w}}}\$d4+ 16 \$\preceq\$b3 \$\preceq\$d5+ \$-+.

A10.09 B.Kristensen – P.Nikolić, Esbjerg 1982

Black can win the game because of his better pawn-structure and more active king:

1...\$\psid6! 2 \psif2 \psic5! 3 \psixf3 \psib4! 4\$
\$\psie2 \psixa4! 5 \psid2 \psib3 6 \psic1 f6 7 \psib1
g5 8 \psic1 gxh4 9 gxh4 f5 10 \psib1 \psic4

Since Black can't make any direct progress on the queenside, he first has to exchange the f-pawn for the e-pawn.

11 &c2 a4 12 &d2 &d5 0-1

Kristensen resigned because of 13 \$\pm\$d3 \$\pm\$e5! 14 \$\pm\$d2 \$\pm\$e4 15 \$\pm\$e2 f4 16 exf4 \$\pm\$xf4! -+.

A10.10 N.Grigoriev, 1920

This study is a very hard nut, of which the solution by Grigoriev has never been published. Averbakh ascribes the following solution to Kniasev (Moscow):

1 b5!

Not 1 2e4? b6!:

a) 2 b5 \$\pic5! 3 \$\pie5 \pixb5! 4 \$\pixe6 \$\pia4 5 \pif7 b5! 6 \$\pixg7 b4! 7 f5 b3! 8 f6

b2! 9 f7 b1 \(\mathbf{9}\)! 10 f8 \(\mathbf{w}\) = still offers practical chances but is drawn. By the way, the reason the promotion didn't get a! was not 10 f8\(\mathbf{Z}\)? \(\mathbf{w}\)e4 -+ but 10 g5?! =.

b) 2 \$\text{\$\psi\$} d4 \text{ b5!} 3 \$\text{\$\psi\$} e4 \$\text{\$\psi\$} d7! 4 \$\text{\$\psi\$} e5\$ \$\text{\$\psi\$} e7! 5 \text{ f5 exf5!} 6 \$\text{\$\psi\$} xf5 \$\text{\$\psi\$} f7! 7 g5 \$\text{\$\psi\$} e7! 8 \$\text{\$\psi\$} g6 \$\text{\$\psi\$} f8! \text{ and White can't make any progress because 9 \$\text{\$\psi\$} h7? \$\text{\$\psi\$} f7! 10 \$\text{\$\psi\$} h8 \$\text{\$\psi\$} g6! \$\text{\$\psi\$} text{ a disaster.}

1...b6

1...\$\pm\$d7 2 \$\pm\$e5! \$\pm\$e7 3 g5 (3 f5 exf5 4 \$\pm\$xf5! \$\pm\$f7 5 b6 +-) 3...b6 4 f5! exf5 5 \$\pm\$xf5! \$\pm\$f7 6 g6+! \$\pm\$e7 7 \$\pm\$e5! \$\pm\$d7 8 \$\pm\$d5! +-.

2 \$c4!

2 f5? exf5! 3 gxf5! \$\precepe e7! 4 \$\precepe e5 \precepe f7!\$ and 2 g5? g6 3 \$\precepe e4 \precepe d7! 4 \$\precepe e5 \precepe e7!\$ are only draws.

2...**⊈**e7

2...e5 3 f5! e4 4 \$\text{\$\psi}\$d4! e3 5 \$\text{\$\psi}\$xe3 \$\text{\$\psi}\$e5 6 \$\text{\$\psi}\$f3! +-.

5...g6 6 \$\delta d6! \$\delta f6 7 \$\delta c6 g5 8 fxg5+! \$\delta xg5 9 \$\delta xb6 e5 10 \$\delta c5! e4 11 \$\delta d4! +- forces the king to the fatal square f4.

6 f5!

6 g5? g6 = (6... 2d7 7 f5 exf5! 8 2xf52e7! 9 2g6 2f8! =).

6...exf5 7 \$\preceq\$xf5! \$\preceq\$f7 8 \$\preceq\$g5! \$\preceq\$f8

8...g6 9 \$\polenote{9}\$ h6! \$\polenote{9}\$ f6 10 \$\polenote{9}\$ h7! \$\polenote{9}\$ g5 11 \$\polenote{9}\$ g7! \$\polenote{9}\$ xg4 12 \$\polenote{9}\$ xg6! +-.

9 \$\psi 64! \$\psi e8 10 \$\psi e4! \$\psi d8 11 \$\psi f5! \$\psi e7 12 \$\psi g6\$

12 g5 \$\dispress{\diny{\dinte\diny{\dinte\diny{\dinte\dinta}\dispress{\dispr

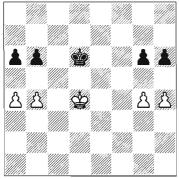
12...\$f8 13 \$\psi h7! \$\psi f7 14 g5! \$\psi f8 15 g6! +-

11 Fight for Tempi and Manoeuvres

In contrast to Chapter 10, passed pawns now play a minor role. The main question is whether the kings are able to penetrate and how one should use spare tempi or how the pawn-structure should be changed.

A) Typical Manoeuvres with an Even Distribution of Pawns

The first example shows the procedure by which the more passive side can draw if he is able to prevent the opponent's king from getting into his position:



11.01 =/=

The white pawns are one rank further up the board, and so they are usually faster when a race is concerned. But keeping the opposition is all it takes for Black to draw:

1 \$\preceq e4!?

1 **\$**c4:

- a) 1...\$\perp 5 2 g5 (2 a5?! bxa5 3 bxa5! \$\perp 64 4 g5 hxg5! 5 hxg5! \$\perp xg5 6 \$\perp c5 =)\$
 2...hxg5 (2...h5 3 a5 \$\perp d6! 4 axb6 \$\perp c6! 5\$
 \$\perp d4 \$\perp xb6! 6 \$\perp c5 \$\perp \perp 5! 7 \$\perp 6 \$\perp xb4! 8\$
 \$\perp xg6 a5! 9 \$\perp xh5 a4! =) 3 hxg5! \$\perp d6 = (3...\$\perp f5? 4 b5! a5 5 \$\perp d5! \$\perp xg5 6 \$\perp c6!\$
 \$\perp f5 7 \$\perp xb6! g5 8 \$\perp c5!! g4 9 \$\perp d4! g3\$
 \$10 \$\perp e3! \$\perp g4 11 b6! \$\perp h3 12 b7! g2 13\$
 \$\perp f2! +-).
- b) 1...\$c6 2 b5+ axb5+! 3 axb5+! \$\preceq\$d6 4 \$\preceq\$d4 \$\preceq\$e6 =.

1...**\$**e6!

1...a5? 2 bxa5! bxa5 3 \$\d4!\$ g5 (3...h5 4 g5! +-) 4 h5! \$\delta 6 5 \delta 4!\$ \$\delta 6 6 \delta 6!\$ \$\delta 6 7 7 \delta 6 5 \delta 6 8 \delta 6 5 \delta 6 5 9 \delta xa5!\$ \$\delta 6 10 \$\delta 6 4 +-; 1...h5? 2 gxh5!\$ gxh5 3 \$\delta 6 5 4 \delta 6 5 \delta 6 5 4 \delta 6 5 \delta 6

2 a5 b5!

White just doesn't manage to win the opposition. 2...bxa5? 3 bxa5! \$\dd\$64 \$\d\$4! \$\d\$c6 5 \$\d\$e5! \$\d\$b5 6 \$\d\$f6! \$\d\$xa5 7 \$\d\$xg6 \$\d\$b4 8 h5 +-; 2...\$\d\$d6? 3 axb6! \$\d\$c6 4 h5 +-.

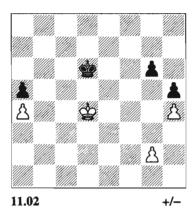
3 g5 h5! 4 \$\d4! \$\d6! 5 \$\d4! \$\d6! =

Often a defence based on the opposition can be broken by a single spare tempo (see following diagram):

Due to g2-g3 Black can't defend the key squares of the a-pawn:

1 ⊈c4

1 g3 also wins at once, but in this line one has to calculate the race precisely: 1...\$\phie6 (1...\$\phic6 2 \phic4! +-) 2 \phic5 \phif5 3 \phib5 \phig4 4 \phixa5! \phixg3 5 \phib4 and White wins.



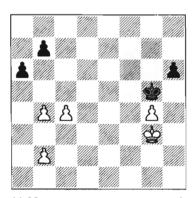
1 \$\documentum{4}\equiv 4?? allows the black king to penetrate on the queenside: 1...\$\documentum{4}\c5! −+.

1...\$c6 2 g3!

With the help of the spare tempo, White wins the opposition and conquers the key squares of the a-pawn.

2...\$b6 3 \$d5! +-

Sometimes one can also gain a spare tempo by other means:



11.03 + G.Kamsky – V.Tukmakov Reykjavik Open 1990

Though White's queenside majority is unable to create a passed pawn, it can provide the decisive spare tempo.

1 b3 \$f6 2 \$f4 \$g6 3 c5!?

3 b5 axb5 4 c5! also wins (but not 4 cxb5? b6! 5 \$\displayses 6.5 \$\displayses 6.5 \$\displayses 6.5 \$\displayses 6.5\$ and Black can draw).

3 \$\delta e 4?! \$\delta 5 4 \$\delta f 3! \$\delta f 6 5 c 5 \$\delta 5!? (5...\$\delta 6 6 \$\delta f 4 \$\delta f 6 7 b 5! \text{ axb5 8 b 4!} +-) 6 \$\delta g 3!\$ (6 b 5? gives away the opportunity to gain a spare tempo: 6...axb5! 7 b 4 \$\delta g 6! 8 \$\delta f 4 \$\delta f 6! = \text{ and now it's White to move in a position of reciprocal zugzwang) 6...\$\delta g 6 7 \$\delta f 4!\$ (7 \$\delta h 4?! \$\delta f 6! \text{ axb5!} 7 \$\delta f 8 \$\delta f 5 \$\delta g 7 9 \text{ b5?} \text{ axb5!} 10 \text{ b4 \$\delta h 7!} 11 \text{ g5} \text{ hxg5!} 12 \$\delta x g 5! \$\delta g 7 =) 7...\$\delta f 6 8 \text{ b5!} \text{ axb5 9 b 4!} +-.

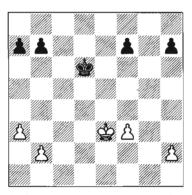
3...**\$**€6 4 b5!

Gaining a tempo; the further-advanced of the doubled pawns is sacrificed in order to create a zugzwang with the back pawn that is fatal for Black.

4...axb5 5 b4! \$\preceq\$e6 6 \$\preceq\$e4! \$\preceq\$f6 7 \$\preceq\$d5! 1-0

There could have followed 7...\$\pi 56 (7...\$\pi 7 8 c6 bxc6+ 9 \pi xc6! +--) 8 \pi 66! \$\pi xg4 9 \pi c7! h5 10 \pi xb7! and White wins because the c-pawn queens with check.

The following two practical examples are not at all easy:



11.04 /= L.Sandler - P.Leko Sydney 1992

It soon becomes obvious that Black is better. His king is more active (because he is to move) and all of his pawns have the option of a possible double step while White has already played a3 and f3. So if necessary, a fight for tempi would be in Black's favour. Despite these advantages Black isn't able to win against the best defence.

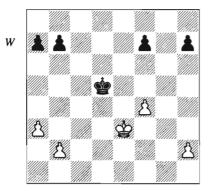
1...\$e5!?

By 1...\$d5 Black achieves nothing: 2 \$\pmeq f4!? \$\pmeq c4 3 \$\pmeq e5 \$\pmeq b3 4 \$\pmeq f6 b5 5 \$\pmeq xf7\$ is a draw.

2 a4!?

White should immediately try to build a defensive position by a4 and b3 in order then to be able to oscillate with his king on the 3rd rank. The move a4 is necessary because otherwise Black could undermine the b3-pawn by ...b5 and ...a5-a4.

The game proceeded instead 2 f4+?! \Rightarrow d5 (D) and now:



- a) Sandler made a decisive error, losing as follows: 3 b3? b5 4 \(\Delta d3 a5 5 h3 h6 6 \(\Delta e3 a4 7 bxa4 \) (7 \(\Delta d3 axb3 8 \(\Delta c3 \) \(\Delta e4 9 \) \(\Delta xb3 \) \(\Delta xb5 \) \(\Delta g3 also wins for Black; the f-pawn queens with check) 7...bxa4! 8 \(\Delta d3 f5! -+ 0-1. \)
- b) 3 a4!! b6 (after 3...\$c4 White's counter-attack isn't fast enough: 4 \$e4! \$b3 5 \$e5 =) 4 \$e3 a6 5 b3 b5 (5...f5 6 b4 =) 6 axb5! axb5 7 \$e3 \$e5 (7...\$e4 8

\$\psib4! =) 8 f5! h5 (8...f6 9 \$\psid3! h5 10 \$\psie4 h4 11 h3! b4 12 \$\psie3! \$\psid5 13 \$\psid3! =) 9 h4! (9 h3? f6 10 \$\psid5 d3 \$\psid5 h4 -+) 9...f6 10 \$\psid5 d3! \$\psid5 11 \$\psic5 c3! =.

2...a5 3 h3 h6 4 f4+ \$\ddot d5 5 \ddot d3 f5 6

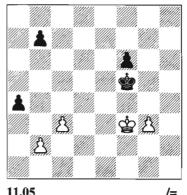
This safely protects the key square c4. Since the white king can easily defend d4 and e4 by oscillating between d3 and e3 there is nothing else one could do.

6...b6 7 h4 h5 8 \$e3! \$c5 9 \$d3! \$b4 10 \$c2!

10 \$\pm\$d4? \$\pm\$xb3! 11 \$\pm\$e5 \$\pm\$xa4! 12 \$\pm\$xf5 \$\pm\$b5 ∓.

10...b5 11 axb5! \$\preceq\$xb5 12 \$\preceq\$d3 \$\preceq\$b4 13 \$\preceq\$c2! =

The next game is of fundamental significance and demands special attention:



11.05 R.Hegde – E.Vasiukov Coimbatore 1987

One usual winning plan for the more active king is the exchange of all pawns on one wing in order to use the existing space or time advantage on the other wing. However, in the present example White can avoid the exchange of the b2-pawn with the help of a nice stalemate trick:

1...b5 2 g4+

2 \dot{2} e3 \dot{2} e5 (2...\dot{2} g4 3 \dot{2} f2! f5 4 \dot{2} g2! =) 3 g4 leads to the game.

2....**⊈**e5

2... \(\delta g \) 5 3 \(\delta g \) 3! f5 4 gxf5! \(\delta x f5 = \). The strategy of exchanging all the kingside pawns doesn't help him either since now Black can no longer penetrate on the queenside.

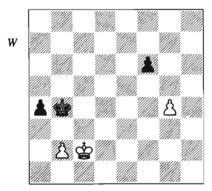
3 \$e3! \$d5 4 \$d3!?

4 \$\precept{\precept{4?!}} is very risky from a practical point of view: 4...\$\precept{\precept{c}} 4 5 \$\precept{5f5!}\$ \$\precept{\$b\$3 6}\$ \$\precept{\$a\$5!}\$ \$\precept{\$a\$5!}\$ \$\precept{\$a\$5!}\$ \$\precept{\$a\$1}\$ \$\precept{\$a\$2 9 g7!}\$ \$\precept{\$a\$1}\$ \$\precept{\$a\$1}\$ \$\precept{\$a\$2 9 g7!}\$ \$\precept{\$a\$1}\$ \$\precept{\$a\$2 9 g7!}\$ \$\precept{\$a\$1}\$ \$\precept{\$a\$2 9 g7!}\$ \$\precept{\$a\$3 8 g6!}\$ \$\precept{\$a\$2 9 g7!}\$ \$\precept{\$a\$3 8 g6!}\$ \$\precept{\$a\$2 9 g7!}\$ \$\precept{\$a\$3 8 g6!}\$ \$\precept{\$a\$3 8 g6

4...\perpc5!? 5 \perpc4d2

Not 5 \$\delta c2?\$, when Black can successfully accomplish his plan: 5...\$\delta c4! 6 \$\delta c1\$ (6 \$\delta b1\$ \$\delta b3\$ -+). Then:

- a) 6...a3 7 \(\psi \c2 \):
- a1) 7...b4 8 cxb4 a2! (8...axb2? 9 \$\displayb1!!=) 9 b3+ \$\displayb4! 10 \$\displayb2 a1\$\display+11 \$\displaxa1 \$\displayb3! -+.
- a2) 7...axb2 8 \$\dispxb2 \text{b4!} 9 \text{cxb4 }\dispxb4! -+.
- b) 6...\$\psi 3 7 \$\psi 1 a3! 8 bxa3 \$\psi xc3! 9\$
 \$\psi a2 \$\psi c2! (9...b4? 10 axb4! \$\psi xb4 11\$
 \$\psi b2! =; see 2.12) 10 \$\psi a1 \$\psi b3! -+.\$
 - $5... \Leftrightarrow c4.6 \Leftrightarrow c2! b4.7 cxb4! \Leftrightarrow xb4! (D)$



8 **\$**b1

8 \$\psic1 \$\psic4 9 \$\psib1!\$ (9 \$\psic2? \$\psid4!\$ 10 \$\psid2 \$\psic4!\$ 11 \$\psic3 \$\psif4\$ 12 \$\psib4 \$\psix4!\$ 13 \$\psix44\$ f5! -+) and now 9...\$\psib3\$ leads

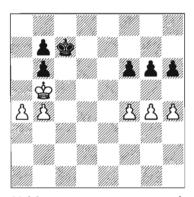
to the game (at move 9), while after 9...2d3 10 2a2! 2e4 11 2a3! 2f4 12 2a4! 2a4! 2a5 able to win either.

8...\$b3 9 \$a1 a3!? 10 \$b1!!

10 bxa3? xa3! -+; 10 g5? fxg5! -+.

Due to 10...axb2 11 g5 fxg5! stalemate.

It isn't obvious that the same stalemate trick is again the only way to save the game in the following example:



11.06 =/ Variation from C.D.Meyer -H.Dutschak, Bundesliga 1996

Though Black's queenside pawnstructure is weakened, White cannot exploit that fact nor he can use his space advantage. No matter how White proceeds on the kingside, Black always has an adequate answer.

1 h5

- a) 1 f5 gxf5! 2 gxf5! h5! 3 a5 bxa5! 4 bxa5! $\triangle d7 =$.
- b) 1 g5 fxg5! (1...hxg5? lets White break through successfully: 2 fxg5! f5 3 h5! f4 4 hxg6 f3 5 g7! f2 6 g8\foralleterm{\psi}! f1\hat{\psi}+7 \foralleterm{\psi}'c4+\hat{\psi}xc4+8\hat{\psi}xc4++) and now:
- b1) 2 hxg5?? (this attempt to break through ends in disaster) 2...h5! 3 f5 ★d7

- b1) 2 fxg5! h5! 3 \$\preceq\$c4 \$\preceq\$c6 4 \$\preceq\$d4 \$\preceq\$d6 =.
 - c) 1 a5:
- c1) 1...g5?! 2 axb6+ \$\psi d6! 3 fxg5 fxg5! 4 hxg5 hxg5! 5 \$\psi c4 \$\psi c6! (5...\$\psi e5? 6 \$\psi c5! \$\psi f4 7 \$\psi d6! \$\psi xg4 8 \$\psi c7! \$\psi f3 9 \$\psi xb7! g4 10 \$\psi c6 g3 11 b7! g2 12 b8\$\psi! g1\$\psi 13 \$\psi f8+! +-) 6 b5+ \$\psi xb6! 7 \$\psi b4! \$\psi c7! 8 \$\psi c5 \$\psi d7! 9 \$\psi d5 \$\psi c7! 10 \$\psi e5\$ \$\psi b6! 11 \$\psi f5 \$\psi xb5! 12 \$\psi xg5 \$\psi c5 13 \$\psi f6 b5! =.
- c2) 1...bxa5 2 bxa5 \$\ddot 2 d7 3 \$\ddot 6 d7 4 \ddot 4 d7 =.
- d) 1 \$\displace c4 \$\displace d6 2 \$\displace d4 \$\displace e6 also leads to a draw.

1...gxh5! 2 gxh5! f5! 3 a5 bxa5! 4 bxa5! \$\precepbe{\pre

This leads to the familiar (11.05) stalemate finish.

4...\$\preceq\$c8? loses a decisive tempo: 5 \$\preceq\$c4 \$\precep\$b8 6 \$\precep\$d5 \$\precep\$a5 9 \$\precep\$e6 +— and White wins in the end by \$\precep\$a8+ and \$\precep\$b8+.

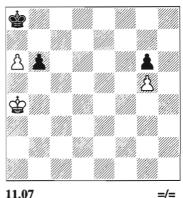
5 \$\primete b6 \primete a8! 6 a6 \$\primete b8! 7 axb7 stalemate.

B) "Don't Touch Me!"

This special form of a fight for tempi is characterized by two pawns of different colour standing next to each other. First horizontal (see following diagram):

Both kings have to keep their distance from the 'don't touch me' pawns (a6, b6). If either king moves next to them he gets into a fatal zugzwang.

- 1 **\$**b4!
- 1 **\$**b5? **\$**a7! −+.
- 1...**⇔**b8!
- 1...\$\preceq a7? 2 \$\preceq b5! +-.
- 2 & c4 & a8! 3 & b4! =
- 3 \(\precent{\precent

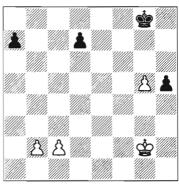


11.07 Y.Averbakh

For such positions it's worthwhile knowing the following **rule**. We distinguish between two cases:

- 1) No or same number of spare tempi: one shouldn't move first to a 'don't touch me' square (b5 or a7 in 11.07) but one has to keep a short distance away.
- 2) Different number of spare moves: one should move as soon as possible to a 'don't touch me' square.

It follows that positions of the first type are usually drawn while in the second case there is usually a decisive result. Three examples should illustrate that:



11.08
After Maizelis

=/=

Both sides have the same number of tempi with their pawns; thus we have the first case:

1 \$g3 \$g7 2 \$h3

2 \Pf3?! \Pg6 3 \Pf4! a5 4 b3! d6 5 c4 is a draw.

2...**⊈**f7 3 **⊈**g3!

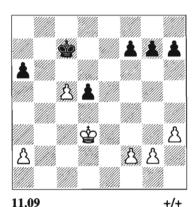
To move closer would be fatal: 3 \$\pih4? \pige g6! 4 c4 (4 c3 a6 5 b3 d6 6 b4 d5! \\
\to \) 4...a5! 5 b3 d6! \to \tau.

3...**⊈**g7! =

3...\$\perp 6? 4 \$\perp h4! a5 5 c4 a4 6 c5! \$\perp f7 7 \$\perp xh5! \$\perp g7 8 g6 \$\perp g8 9 \$\perp h6 \$\perp h8 10 g7+ \$\perp g8 11 \$\perp g6! a3 12 bxa3! d6 13 c6 +-.

With black pawns at b7 and c7 the spare moves would have been equal as well. In that case too neither side would have been able to move next to the pawns.

The next case is different:



The two sides have a different number of spare tempi. Therefore the king should step on the 'don't touch me' square as soon as possible:

1 **2** d4

After 1 \$\preceq\$c3? Black uses the rule and turns the tables: 1...\$\preceq\$c6 2 \$\preceq\$d4 g5!! (first h3 has to be fixed; an immediate 2...a5?

doesn't work: 3 h4 a4 4 g4 a3 5 f4 h6 6 h5 f6 7 f5! +-) 3 f3 (3 g3 a5! 4 g4 a4! 5 a3 f6 6 f3 h6! -+) 3...a5 4 g3 a4 5 a3 h5 6 h4 gxh4 7 gxh4 f6! 8 f4 f5! 9 \$\div 6\$ f5 c5! 10 \$\div xf5 d4! 11 \$\div 64 \div 64! -+. Black either queens with check or wins the white queen by ... \$\div 61 + and ... \$\div f1+.

1...\$c6 2 h4

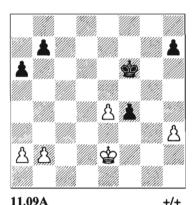
2 f4 +-.

2...g6

2...h5 3 a3 a5 4 a4! g6 (4...f6 5 f3! g5 6 g3! +-) 5 f3! f6 6 f4 f5 7 g3! +-.

3 g3 f5 4 a3! a5 5 a4! f4 6 g4 h6 7 f3! g5 8 h5! +-

Because of its great popularity we have to include the following example:

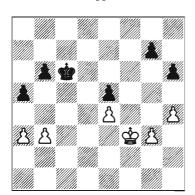


Sveda – Sika Brno 1929

White to move would win: $1 ext{ $\%63!}$ (1 h4? $ext{ $\%66!}$ 2 $ext{ $\%f2!}$ =; $1 ext{ $\%f2??}$ $ext{ $\%65 2 ext{ $\%f3}$}$ a5! -+) 1... $ext{ $\%65 $}$ (now White has to get rid of the disadvantage of having already played h3) 2 h4! a5 3 h5! a4 4 h6! b6 5 b4! +-.

In the game it was Black's move: 1...\$\delta = 5 2 \delta f3 a5! (Black plays on the wing where he has a disadvantage in terms of spare tempi) 3 b3 b5 4 a3 a4 5 bxa4 bxa4! 6 h4 h5! 0-1.

'Don't touch me' pawns that block each other are known to us from Chapter 2. Here the rule is applied as well:



11.10 +/ L.Polugaevsky - K.Grigorian USSR Ch (Leningrad) 1971

White uses his right to move to get Black into zugzwang:

1 \$\pmu_{g4}! \$\pmu_{c5}\$

1...g6 2 h5! gxh5+3 \$\psi xh5 +-; 1...\$\psi 5 2 \$\psi f5! a4 3 bxa4+ \$\psi xa4 4 \$\psi xe5! \$\psi xa3 5 \$\psi d6 +-.

2 \psif5!

2 h5? b5! 3 \psif5 b4! 4 axb4+ \psixb4! 5 \psixe5! \psixb3! =.

2...**⇔**d4

Now the kings can't move any longer without giving up their respective e-pawns. By accurate play White makes sure it is Black who first runs out of moves:

3 h5! b5

3...\$\perpcox c3 4 \perpcox c5! \perpcox c5 5 \perpcox c5 5 6 6 5! \quad b4 7 axb4! a4 8 e6 a3 9 e7! a2 10 e8\$\psi!\$
a1\$\psi\$ 11 \$\pm c3+!? \perpcox c5 4 12 \$\pm c6+ \perpcox c3 13\$
\$\pm a7+ \perpcox c5 14 \$\pm xg7+ \perpcox c3 15 \$\pm xal+ +-\$

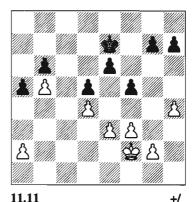
4 b4! a4

4...axb4 5 axb4! \$c4 6 \$xe5! \$xb4 7 \$c4 4 \$a5 8 \$c5! b4 9 \$c4! is winning for White.

5 g4! \$\psic4 6 \$\psixe5! \$\psib3 7 \$\psid4! \$\psixa3 8 \$\psic5! \$\psia2 9 \$\psic2! 1-0\$

C) King-March and Fight for Tempi

Now that we have familiarized ourselves with the basic techniques of manoeuvres and the fight for tempi, we are ready to discuss long king-marches into the opponent's position.



11.11 H.Behrens – R.Storm Germany 1982

The first example is relatively simple because with \$\preceq\$12-g3-f4-e5 White has a clear route and enough spare tempi to achieve his aim:

1 \$\psig3! \$\psif6 2 \$\psif4! h6

2...g6!? 3 g4! (3 e4? h6 =) 3...fxg4 (3...h6 4 g5+! +--) 4 fxg4! and now:

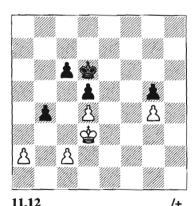
a) 4...a4 5 e4! (5 g5+? \$\preceperrup e7! 6 e4 dxe4! 7 \$\precept xe4 \$\precept d6! 8 a3 \$\precept d7! 9 \$\precepe e5\$ \$\precepe e7! =) 5...dxe4 6 \$\precep xe4!:

a1) 6...g5 7 h5!? (7 hxg5+?! \$xg5 8 \$e5! \$xg4 9 \$xe6! h5 10 d5! h4 11 d6! h3 12 d7! h2 13 d8\(\mathbb{w}\)! h1\(\mathbb{w}\) 14 \(\mathbb{w}\)d4+ \(\mathbb{g}\)3 15\(\mathbb{w}\)xa4±)7...\(\mathbb{f}\)7 8 \(\mathbb{e}\)5 \(\mathbb{e}\)7 12 \(\mathbb{f}\)5

- a2) 6...a37d5+-
- a3) 6...\$\psi f7 7 \$\psi 6 \$\psi 67 8 h5 (after 8 a3? Black can close the position: 8...h6! 9 h5 g5! =) 8...gxh5 9 gxh5! a3 10 d5 exd5 11 \$\psi xd5! \$\psi d7 12 h6! (12 \$\psi 65?! \$\psi 67 13 h6 \$\psi d7 14 \$\psi f6? \$\psi d6! 15 \$\psi g7 \$\psi 67 is drawn because White can't leave the corner) 12...\$\psi c7 13 \$\psi 66! +-- and White captures the b6-pawn.
- b) 4...e5+ 5 dxe5+! \$\phi\$e6 6 e4 (6 \$\phi\$g5?? \$\phi\$xe5! 7 \$\phi\$h6 \$\phi\$e4! 8 \$\phi\$xh7 \$\phi\$xe3! 9 \$\phi\$xg6 d4! 10 h5 d3! 11 h6 d2! 12 h7 d1\$\pi! 13 h8\$\pi\$ \$\pi\$xg4+! 14 \$\phi\$f7 \$\pi\$) 6...d47 g5! a4 8 a3! \$\phi\$e7 9 \$\phi\$f3! \$\phi\$e6 10 \$\phi\$e2! \$\phi\$xe5 11 \$\phi\$d3! +- gets Black in a 'don't touch me' zugzwang set-up.

3 h5! \$f7 4 \$e5 \$e7 5 e4 dxe4 6 fxe4! fxe4 7 \$\phi\$xe4 \$\phi\$f6 8 \$\phi\$f4 a4 9 a3 \$\phi\$f7 10 \$\phi\$e5 \$\phi\$e7 11 d5 exd5 12 \$\phi\$xd5! \$\phi\$d7 13 g3 \$\phi\$c7 14 \$\phi\$e6! \$\phi\$c8 15 \$\phi\$f7 1-0

The route isn't always indicated so clearly:



11.12 Hansen – A.Nimzowitsch Randers simul 1925

It seems as if Black is about to lose because White is threatening to create an outside passed pawn on the a-file by c3. But Aron Nimzowitsch managed to turn the tables by penetrating on the queenside with his king:

1...\$c7!!

After 1...c5? White can create an outside passed pawn: 2 dxc5+! (2 c4? \(\preceq c6! \) =) 2...\(\preceq xc5 \) 3 c3! +-.

2 c3

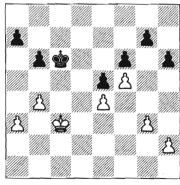
Other moves don't help either:

- a) 2 c4 \$\pm\$b6 3 cxd5 cxd5! 4 \$\pm\$c2 \$\pm\$a5! 6 a4 bxa3! 7 \$\pm\$xa3! =) 5 \$\pm\$b2 \$\pm\$a4! 6 \$\pm\$c2 \$\pm\$a3! 7 \$\pm\$b1 b3! 8 \$\pm\$a1 \$\pm\$b4 -+.
- b) 2 a3 bxa3! 3 \$\pi c3 \$\pi b6 (3...c5 also wins but after 4 dxc5 \$\pi c6 5 \$\pi b3 \$\pi xc5 6\$ \$\pi xa3 d4 7 \$\pi b3 \$\pi d5! 8 \$\pi b4 one has to find the idea 8...d3!! 9 cxd3 \$\pi d4! -+) 4 \$\pi b3 \$\pi b5 5 c3 c5 6 dxc5 \$\pi xc5! 7 \$\pi xa3 \$\pi c4 8 \$\pi b2 d4 -+.

2...\$b6! 3 cxb4 \$b5! 4 \$c3 \$a4!

Hansen resigned because of 5 \(\pm c2 \) (5 b5 cxb5! 6 \(\pm b2 \) \(\pm b4 \) -+) 5...\(\pm xb4! 6 \) \(\pm d3 \) \(\pm a3 \) 7 \(\pm c3 \) \(\pm xa2! 8 \) \(\pm b4 \) \(\pm b2! 9 \) \(\pm c3 \) \(\pm c3 \) -+

The next game, which was analysed in detail by Magerramov in *Informator 44*, shows typical resources for the attack and the defence:



11.13 +/ E.Magerramov – S.Makarychev Pavlodar 1987

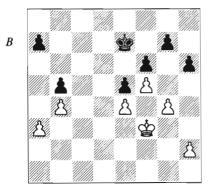
White has to continue very accurately so that his route on the kingside isn't plugged. Furthermore the queenside isn't yet closed.

1 a4!

1 \$\precequive c4? b5+! 2 \$\preceq d3 \$\preceq d6 3 \$\preceq e3 \$\preceq e7!\$
4 \$\preceq f2 (4 \$\preceq f3 \$\preceq f7! 5 \$\preceq g4 g5 6 fxg6+\$\preceq xg6! 7 h3 a6 =) 4...\$\preceq f7 5 \$\preceq f3 g5! 6 fxg6+\$\preceq g7!!\$ (with this very pretty move, Black manages to reach the reciprocal zugzwang with White to play: 6...\$\preceq xg6? 7 \$\preceq g4!\$ a6 8 h3! h5+ 9 \$\preceq f3!\$ f5 10 exf5+\$\preceq xf5 11 \$\preceq e3 +--) 7 \$\preceq g4 \$\preceq xg6! 8 h3 a6 9 \$\preceq f3!\$ \$\preceq g5 10 g4 \$\preceq g6!\$ =.

After 1 g4? (the move played in the game itself) Black can block the way to the kingside:

- a) 1...a6 2 \$\disc\$c4 (after 2 a4 h5! 3 h3 h4 = White cannot close the queenside, nor does he have enough reserve tempi to penetrate there himself) 2...h5! (2...\$\disc\$d6? 3 a4 \$\disc\$c6 4 b5+ axb5+ 5 axb5+! \$\disc\$d6 6 h3 \$\disc\$c7 7 \$\disc\$d5 \$\disc\$d7 8 h4 +-) 3 h3 h4 4 a4 a5 =.
- b) The erroneous 1...b5? was played in the game: 2 \$\precedge d3 \$\precedge d6\$ (2...h5 is now not enough, as Black has closed the queenside himself: 3 \$\precege e3\$ hxg4 4 \$\precege f2\$ \$\preceq d6 5 \$\precege g3\$ \$\preceq e7\$ 6 \$\preceq xg4 \$\precege f8\$ 7 \$\precege h5\$ \$\precege f7\$ 8 h3! a6 9 h4! \$\precege f8\$ 10 \$\precege g6\$! \$\precege g8\$ 11 h5! +-) 3 \$\precege e3\$ \$\precege e7\$ 4 \$\precege f3\$ (D). Now Black can continue:



- b1) 4...\$\psi 75 \psi g3! g5 6 fxg6+! \$\psi g7 (6...\$\psi xg6 7 \psi h4! a6 8 h3! \$\psi g7 9 \psi h5! \$\psi h7 10 h4! \$\psi g7 11 g5! hxg5 12 hxg5! \$\psi f7 13 gxf6 \psi xf6 14 \psi h6 +-) 7 \psi h3! \$\psi xg6 8 \psi h4! +-.
- b2) The game concluded 4...\$\Delta f8 5\$
 \$\Delta g3 \Delta f7 6 \Delta h3! (6 \Delta h4? g5+ 7 fxg6+\$\Delta xg6! 8 h3 a6!=) 6...\$\Delta g8 7 \Delta h4! \Delta f8 8\$
 \$\Delta h5! \Delta f7 9 h3 \Delta f8 10 \Delta g6 \Delta g8 11 h4\$
 \$\Delta f8 12 g5 hxg5 13 hxg5! fxg5 14 \Delta xg5\$
 \$\Delta f7 15 \Delta g4 \Delta e7 16 \Delta h4 \Delta f6 17 \Delta h5!\$
 a6 18 \Delta h4! 1-0. Except for the mistake on the first move, Magerramov conducted an excellent king-march against the only exploitable weakness in Black's position: the g7-pawn. 18...\$\Delta e7 19 \Delta g4!\$
 \$\Delta f6 20 \Delta h5! \Delta f7 21 \Delta g5! \Delta e7 22 \Delta g6!\$
 \$\Delta f8 23 f6! +-.
- c) After 1...h5!?, either the route will be closed or White will lose his reserve tempi: 2 h3 (2 gxh5 b5 3 \$\dd3\$ \$\d6\$ 4 \$\dd9\$ e3 \$\dd9\$ 67 5 \$\dd9\$ f3 \$\dd9\$ f7 6 \$\dd9\$ g4 a6 7 h3 \$\dd9\$ g8 8 h6 gxh6 =; the black king can oscillate between g7 and h7, and the fortress is impenetrable) 2...hxg4 3 hxg4! b5 4 \$\dd9\$ d6 5 \$\dd9\$ e3 \$\dd9\$ e7 6 \$\dd9\$ f3 \$\dd9\$ f7 7 \$\dd9\$ g3 (7 g5? fxg5! 8 \$\dd9\$ g4 \$\dd9\$ f6! 9 \$\dd9\$ h5 a6! -+) 7...g5 =.

1...b5

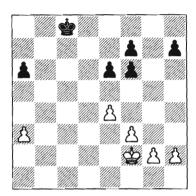
1...a6 2 \$\&\circ\$c4 b5+ (after 2...h5 White can, thanks to his two reserve tempi, penetrate on the queenside: 3 b5+! axb5+ 4 axb5+! \$\&\displace\$d6 5 h3! \$\&\displace\$c7 6 \$\&\displace\$d5! \$\&\displace\$d7 7 h4! +-) 3 axb5+! axb5+ 4 \$\&\displace\$d3! \$\&\displace\$d6 5 \$\&\displace\$e3 \$\&\displace\$e7 6 \$\&\displace\$f3! \$\&\displace\$f7 7 \$\&\displace\$g4! g5 8 fxg6+! \$\&\displace\$xg6 9 h3! h5+ 10 \$\&\displace\$f3! \$\&\displace\$h6 11 h4! \$\&\displace\$g6 12 g4! +-.

2 a5! \$\psi d6 3 \$\psi d3 \$\psi e7 4 \$\psi e3 \$\psi f7 5\$ \$\psi f3! h5 6 g4 h4

6...\$\psig8 7 \psig3 \psih7 8 \psih4 \psih6 9 a6!

7 g5! fxg5 8 \$\preceq\$g4! \$\preceq\$f6 9 \$\preceq\$h5! h3 10 a6! +-

A weakened pawn-structure can also be the target of a king-march:



11.14 +/
N.Liogky - A.Nenashev
USSR Army Ch (Tashkent) 1987

On the kingside the white king can get to h6, thereby tying Black down. Afterwards White exchanges pawns in a favourable way and wins due to his more active king.

1 **⋭**g3!

1...\$\psi 7 2 \$\psi h 4 \$\psi 6 7 3 \$\psi h 5! \$\psi f 8 4\$\$
\$\psi h 6! \$\psi g 8 5 f 4 \$\psi h 8 6 g 4 \$\psi g 8 7 h 4 a 5 8\$\$
\$a 4 \$\psi h 8 9 e 5 f x e 5 10 f x e 5! \$\psi g 8 11 g 5\$\$

11 h5 \$\psi\$h8 12 \$\psi\$g5 \$\psi\$g7 13 h6+! \$\psi\$f8 14 \$\psi\$f6! \$\psi\$e8 (14...\$\psi\$g8 15 \$\psi\$e7 \$\psi\$h8 16 \$\psi\$f8 +--) 15 \$\psi\$g7 (15 g5?! \$\psi\$f8 16 g6 fxg6 17 \$\psi\$xe6! \$\psi\$e8 18 \$\psi\$f6! \$\psi\$f8 19 e6! \$\psi\$e8 20 \$\psi\$g7! +--) 15...\$\psi\$e7 16 \$\psi\$xh7 \$\psi\$f8 17 g5 +--.

11...\$h8 12 h5!

12 \$\psi\h5? \$\psi\g7! 13 \$\psi\g4 \$\psi\f8 =.

12...\$g8 13 g6 \$h8

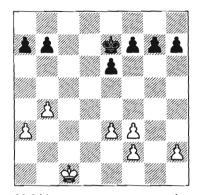
13...hxg6 14 hxg6! \$\precent{\

14 gxh7

Not 14 gxf7?? stalemate.

1-0

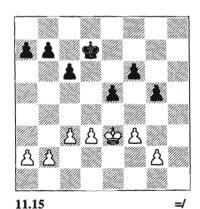
■ The similar classic is the following game:



11.14A /4 E.Cohn – A.Rubinstein St Petersburg 1909

1...\$66! 2 \$\psi d2 \$\psi 5! 3 \$\psi e2 \$\psi h4! 4\$\$ \$\psi f1 \$\psi h3! 5 \$\psi g1 e5 6 \$\psi h1?! b5 7 \$\psi g1 f5 8 \$\psi h1 g5 9 \$\psi g1 h5 10 \$\psi h1 g4 11 e4 fxe4 12 fxe4 h4 13 \$\psi g1 g3 14 hxg3 hxg3! 0-1\$

Even in balanced positions the construction of a route can cause confusion:



S.Belkhodja – P.Lebel Hyères 1992

With the first two moves White marks the route to f5 in order then to dedicate himself to the queenside.

1 \$\dot{e}4 \$\dot{e}6 2 g4!? b6

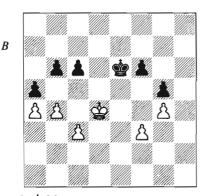
2...a5 3 a4 b6:

- a) 4 b4 \$\psi d6 (4...c5? 5 b5 \$\psi d6 6 \$\psi f5!)\$
 \$\psi 7 7 \$\psi g6! \$\psi e6 8 c4 \$\psi 7 9 \$\psi g7! \$\psi e6\$
 \$10 \$\psi f8! f5 11 \$\psi g7 fxg4 12 fxg4! e4 13\$
 \$\dxe4! \$\psi 5 14 \$\psi g6 +--) 5 bxa5 bxa5! 6\$
 \$\psi f5 \$\psi e7! 7 d4 exd4! 8 cxd4! \$\psi f7! 9 f4\$
 \$\quad gxf4! 10 \$\psi xf4 \$\psi g6 =.\$
- b) 4 d4 exd4 5 \$\text{\Pi}xd4 f5 6 b4 fxg4! 7 fxg4! \$\text{\Pi}d6 8 bxa5 bxa5! 9 \$\text{\Pi}c4 \$\text{\Pi}e5 10 \$\text{\Pi}c5! \$\text{\Pi}f4 11 \$\text{\Pi}xc6 \$\text{\Pi}xg4 12 c4 =.

3 b4 a6

3...a5 4 a4 \$\dd 65 d4 exd4 6 \$\dd xd4! c5+ 7 bxc5+ bxc5+! 8 \$\dd e4\$ \$\dd e6! 9 c4 \$\dd d6 10 \$\dd f5\$ \$\dd e7! 11 f4 gxf4! 12 \$\dd xf4\$ =

4 a4 a5 5 d4 exd4 6 \(\disp\) xd4 (D)



6...**⊈**d6

6...axb4? 7 cxb4! \$\text{\text{d}}\$7 8 \$\text{\text{\$\text{e}}}\$4 \$\text{\$\text{d}}\$6 (8...\$\text{\$\text{\$\text{e}}}\$6 9 a5! bxa5 10 bxa5! \$\text{\$\text{\$\text{\$\text{\$\text{d}}}\$6 11 \$\text{\$\tex}\$\$\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex{

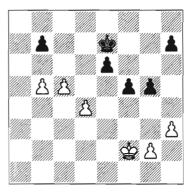
7 **\$**c4

Now the game concluded 7...\$\psi d7? 8 bxa5! bxa5 9 \$\psi c5! \$\psi c7 10 c4! 1-0 (due to 10...\$\psi d7 11 \$\psi b6! \$\psi d6 12 \$\psi xa5 \$\psi c5 13 \$\psi a6! \$\psi xc4 14 \$\psi b6 +-). Instead,

active counterplay would have achieved a draw:

7...堂e5! 8 bxa5 bxa5! 9 堂c5 堂f4! 10 堂xc6 堂xf3! 11 c4 堂xg4! 12 c5 堂f4 13 堂d6 g4! 14 c6 g3! 15 c7 g2! 16 c8豐 g1豐! 17 豐c4+ =

The progress of chess programs seems to be unstoppable but still no chip is born a master:



11.16 /= V.Anand - Pentium Genius London PCA rpd 1994

"What does this position have to do with king-marches?" you might ask. With the present structure on the kingside no white penetration is possible. Black only has to watch out for d5, which can be neutralized by a timely ...b6. But surprisingly there followed:

1...h5?

- 1...**⊈**d7 2 **⊈**e3:
- a) 2...\$\psic 7?! 3 d5!? e5?! (3...exd5 4 \$\psid 4 b6! =) 4 b6+ \$\psid d7 5 g4!? f4+! 6 \$\psic 4 h6 7 \$\psi f3:\$
- a1) 7...\$\psi d8? 8 c6! bxc6 (8...\$\psi c8 9 c7 \$\psi d7 10 \$\psi e4! \$\psi c8 11 \$\psi xe5 \$\psi d7 12 d6 f3 13 \$\psi f6! f2 14 c8\$\psi +! \$\psi xc8 15 \$\psi e7! +-) and then:
- a11) 9 dxc6? \$\preceq\$c8 10 \$\preceq\$e4 \$\preceq\$b8! 11 \$\preceq\$xe5!? (11 \$\preceq\$f3 \$\preceq\$c8 12 c7 \$\preceq\$d7 13 \$\preceq\$e4

全c8! 14 学xe5 学d7! 15 学e4 学c8! 16 学d5 学d7! 17 学c4 学c8! 18 学b5 学b7! 19 学c5 f3! 20 学d6! ±) 11...f3! 12 学d6 f2! 13 c7+ 学b7! 14 学d7! f1響 15 c8響+! 学xb6 16 響c6+ 学a5 17 響xh6 響f7+ 18 学d8 響f4 19 学e7 ±.

a12) 9 d6!! \$\times 8 10 \$\times 4!\$ (this fatal formation, which we got to know in Chapter 8, occurs very rarely in practice; Black is lost) 10...f3 (10...c5 11 \$\times d5 f3 12 \$\times c6 +-) 11 \$\times xf3!\$ c5 12 \$\times e4\$ c4 13 \$\times e3 +-.

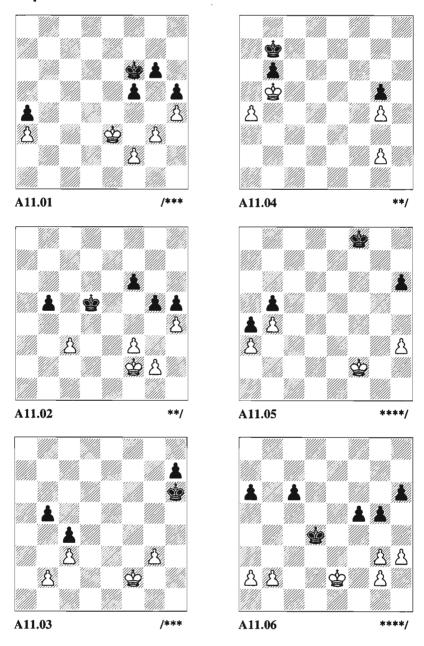
a2) 7...\$\preceq\$c8! 8 c6 (8 d6 \$\preceq\$d7 9 \$\preceq\$e4 \$\preceq\$c6!=; the queen ending arising after 10 \$\preceq\$xe5 f3 11 \$\preceq\$e6! f2 12 d7! f1\$\preceq\$13 d8\$\preceq\$! doesn't achieve anything for White due to 13...\$\preceq\$xc5! 14 \$\preceq\$c7+ \$\preceq\$b5 15 \$\preceq\$xb7 \$\preceq\$xh3) 8...bxc6! 9 dxc6! \$\preceq\$ (9 d6? c5! 10 \$\preceq\$e4 c4! \$\preceq\$).

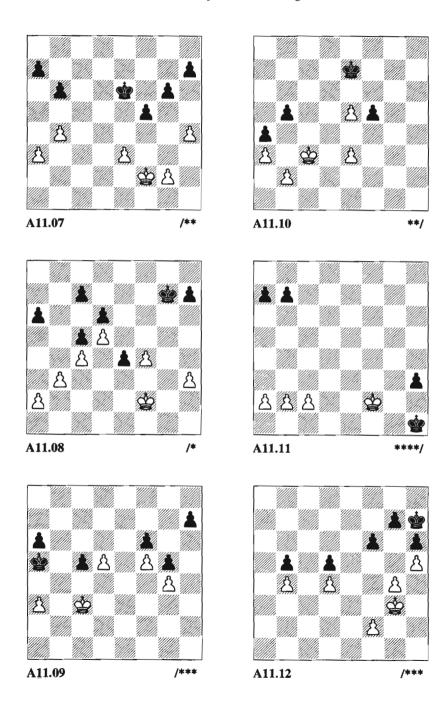
- b) 2...h6 3 &d3 b6! 4 cxb6 h5! 5 d5:
- b1) 5...exd5 6 \$\delta 4 f 4 7 \$\delta xd5 g4! 8 hxg4 (8 \$\delta e4?? f3! 9 gxf3 gxh3! -+) 8...hxg4! 9 \$\delta e4 f3! =.
 - b2) 5...e5 6 &c4 e4! 7 &d4 h4 =.
- c) 2...b6!? 3 cxb6 (3 c6+ \$\pi d6 =; 3 \$\pi d3 bxc5 4 dxc5 e5! 5 \$\pi c4 e4 6 \$\pi d4 h5 7 g4 fxg4 8 hxg4 h4 9 \$\pi xe4 \$\pi c7 =) 3...h5 (3...\$\pi c8? loses by one tempo: 4 d5! exd5 5 \$\pi d4! g4 6 \$\pi xd5! gxh3 7 gxh3! \$\pi b7 8 \$\pi e5! \$\pi xb6 9 \$\pi xf5! \$\pi xb5 10 \$\pi g5! +-) 4 h4 gxh4! 5 \$\pi f4 \$\pi c8! 6 \$\pi e5 \$\pi b7 7 \$\pi xe6 f4 8 d5! h3! =.
 - 2 h4!?

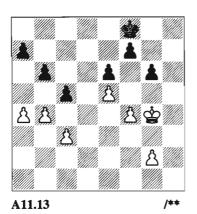
Now the path to f4 is open.

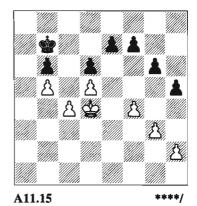
- 2...gxh4
- 2...g4 3 **\$**e3 +−.
- 3 \$\tilde{\pi}\$f3 \$\tilde{\phi}\$e8 4 \$\tilde{\phi}\$f4 \$\tilde{\phi}\$d7 5 \$\tilde{\phi}\$g5 \$\tilde{\phi}\$d8 6 \$\tilde{\phi}\$xh4 \$\tilde{\phi}\$d7 7 \$\tilde{\phi}\$xh5 +-- 1-0

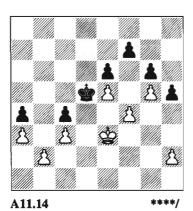
Chapter 11 Exercises











Solutions to Chapter 11 Exercises

A11.01 Ki.Georgiev - N.Short, Lvov 1984

Black has to make a precise move to hold the position:

1...g5!!

Though it splits the pawns, this is the only move that is left after a process of elimination.

1...\$\perpensormath{\perpensormath{0}}\$ 2 f4+! \$\phi\$d5 3 \$\phi\$d3! \$\phi\$c5 4 \$\phi\$c3! \$\phi\$d5 5 \$\phi\$b4! \$\phi\$e4 6 \$\phi\$xa4! \$\phi\$f3 7 \$\phi\$b4 \$\phi\$xg3 8 a4! +-.

2 f4

2 hxg5+ \precent xg5! 3 \precent f3:

a) 3...f4 4 gxf4+ \$\precept{\$\qrecept{\$\precept{\$\precept{\$\precept{\$\precept{\$\precept{\$\precept{\$\precept{\$\precep

al) 5...\$f6 6 \$\preceq\$e4 h4! 7 \$\preceq\$e3 \$\preceq\$6 8 \$\preceq\$e4 \$\preceq\$f6! 9 f5 h3! 10 \$\preceq\$f3! \$\preceq\$xf5 11 \$\preceq\$g3! \$\preceq\$e4 12 \$\preceq\$xh3 \$\preceq\$f3 =.

a2) 5...\$\psig4 6 \$\psie4 h4! 7 f5 h3! 8 f6! h2! 9 f3+! \$\psig5 3 10 f7! h1\$\psi! 11 f8\$\psi! =.

b) 3...\$\psi_6 4 \psi_6! 5 f3?! \psi_6! 6 g4 (6 \psi_6?) \psi_5! 7 f4+ \psi_64! -+) 6...fxg4 7 fxg4! h4 8 g5 =.

2 \$\psi d4 f4 3 \$\psi e4! fxg3 4 fxg3! gxh4 5 gxh4! \$\psi e6 6 \$\psi f4! =.

2...gxh4! 3 gxh4! \$\pie6! 4 \$\pid4 \$\pid6! 5\$ \$\pic4! \$\pic6! 6 \$\pid4\$

6 \$\pm\$b4?! would only cause trouble for White: 6...\$\pm\$d5! 7 \$\pm\$xa4 \$\pm\$e4! 8 \$\pm\$b4 \$\pm\$xf4! 9 a4 \$\pm\$g3 =.

1/2-1/2

A11.02 S.Deak - T.Horvath, Hungarian Cht 1994

Hopefully you have noticed that this exercise comes two chapters late:

1 g4!!

1 hxg5? fxg5! 2 \$\text{\$\phi\$} 3 \$\phi\$f2! \$\phi\$f4 4 g3+! \$\phi\$e5 5 \$\phi\$g2! (5 \$\phi\$e2? \$\phi\$d5! 6 \$\phi\$e3 \$\phi\$c4! 7 f4 gxf4+! 8 gxf4 \$\phi\$d5! 9 \$\phi\$f3 \$\phi\$e6 -+) 5...\$\phi\$d5 6 \$\phi\$h3! \$\phi\$c4 7 f4! gxf4 8 gxf4! \$\phi\$d5 9 \$\phi\$h4! \$\phi\$e4! 10 \$\phi\$g5! h4! 11 f5! h3 12 f6! \$\frac{1}{\pi}\$.

1...gxh4

1...hxg4 2 h5! g3+ (2...\$e6 3 fxg4! +-) 3 \$\prec\$xg3! \$\prec\$e6 4 \$\prec\$g4! \$\prec\$f7 5 f4 gxf4 6 \$\prec\$xf4 \$\prec\$g7 7 \$\prec\$f5 +-.

2 gxh5! \$\div e63 \div g2! \$\div f5 4 f4! +- 1-0

A11.03 J.Nogueiras – J.Hjartarson, *Biel IZ* 1993

Surprisingly the black king can successfully penetrate if he makes good use of all his spare tempi:

1...**\$**h5!!

1...\$\psi_g5? 2 \$\psi_f3! \$\psi_f5 3 g4+! \$\psi_g5 4\$ \$\psi_g3! h6:

a) 5 \$\psi h3? \$\psi f4! 6 \$\psi h4 \$\psi f3 7 \$\psi h5 (7)\$
\$\psi h3 \$\psi e3 8 \$\psi h4 \$\psi d3 9 \$\psi h5 \$\psi c2! 10\$
\$\psi xh6 \$\psi xb2 11 g5 b4! -+) 7...\$\psi g3! and Black wins.

b) 5 \(\psi \)f3! =.

2 \$f3 \$g5! 3 \$f2

3 g4 \$\psi h4! 4 \$\psi f4 h6 5 \$\psi f3 \$\psi h3! 6\$
\$\psi f4 \$\psi g2! 7 g5 hxg5+! 8 \$\psi xg5 \$\psi f3 -+; 3 \$\psi g2 \$\psi g4! 4 \$\psi h2 \$\psi f3 5 \$\psi h3 \$\psi g3 6\$
\$\psi g4 \$\psi d2 -+.\$

3...**⊈**g4! 4 **⊈**g2 h6!

One tempo to get in...

5 \$f2 \$h3! 6 \$f3 h5 0-1

...and one for the encirclement, which Nogueiras didn't want to be shown: 7 \$\psi f2 \psi h2! 8 \psi f3 \psi g1! 9 \psi f4 \psi f2 10 g4 hxg4! -+.

A11.04 S.Brynell – J.O.Lind, Swedish Ch (Gotland) 1997

Thanks to the spare tempo g2-g3 White is successful:

1 **⊈**c4!

1 \$\psib4? \$\psia6! 2 \$\psic4 \$\psia5! 3 \$\psib3! b5! =; 1 g3? \$\psic7! 2 \$\psic4 \$\psic6! =.

1...**⊈**a6

Or 1...\$c6:

a) 2 g3 \$b7 3 \$d5 +- (3 \$b5? \$c7!

b) 2 \$\psi d4 \$\psi d6 3 \$\psi e4 \$\psi e6 (3...\$\psi c5 4 \$\psi f5! +-) 4 g3! +-.

2 \$\d5

2 \$\psib4 \$\psib7 (2...\$\psia7 3 a5 +-) 3 \$\psib5\$ \$\psic7 4 \$\psia6 \$\psic6 5 g3! +--.

2...\$a5 3 \$c6! \$a6 4 g3

4 \$\pm\$d6 \$\pm\$a5 5 \$\pm\$c7 \$\pm\$xa4 6 \$\pm\$xb6! \$\pm\$b4 7 g3 +--.

4...\$\ddot\documenta 7 5 \documents c7! \documents a6 6 \documents b8! b5 7 \documents c5 9 \documents c47! \documents c45 9 \documents c47! \documents c45 10 \documents c7! \documents c6 12 \documents c6 1-0

A11.05 After N.Grigoriev, 1938

Averbakh gives this study with a white king at g2 and the solution 1 \(\precept{\textit{g}}\)f2. But since 1 \(\precept{\text{g}}\)g3 would also win in this case, we have placed the king at f2. One could have also placed it on e1 to get rid of the unwelcome effect of having two key moves.

1 **\$**g3!

1 \$\psi f3? \$\psi f7! 2 \$\psi g4 \$\psi g6! 3 \$\psi f4 \$\psi f6\$ only draws.

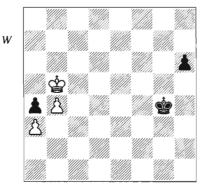
1...\$\psig7 2 \psih4! \psif6 3 \psih5! \psig7 4 h4! \psih7 5 \psig4 \psig6 6 h5+! \psif6 7 \psif4!

At first sight White hasn't achieved anything in particular but have a look yourself.

7...\$e6 8 \$e4! \$f6

8...\$d6 9 \$d4 +-.

9 \$\psi d5 \$\psi g5 10 \$\psi c5 \$\psi xh5 11 \$\psi xb5!\$ \$\psi g4 (D)



12 **\$c4!!**

This is the point. The black king is directed in such a way that either the b-pawn

queens with check or a skewer wins the queen. After 12 \(\colon\) xa4? h5! =, though, both pawns queen at the same time.

12...h5 13 全d3! 全f3 14 b5! h4 15 b6! h3 16 b7! h2 17 b8世! h1世 18 世b7+ and White wins

A11.06 J.Fedorowicz - M.Chandler, London Lloyds Bank 1987

The black king is so active that the weakened black pawns on the queenside are by far outweighed. White should now have used the spare tempo on the kingside at once in order to draw:

1 g4! (Hebbinghaus)

Not:

a) 1 h4? g4:

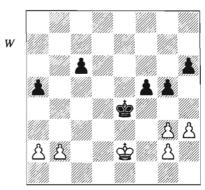
a1) 2 h5 \$\dispec e4 3 b3 c5 4 a3 \$\dispec d4 5 \$\dispec d2\$ a5 (5...c4? 6 b4! c3+! 7 \$\dispec d1!! \$\dispec d3\$ 8 \$\dispec c1! =) 6 a4 c4 -+.

a2) 2 \$\frac{1}{2}\$d2 a5 3 \$\frac{1}{2}\$e2 a4 4 \$\frac{1}{2}\$d2 h5 5 \$\frac{1}{2}\$e2 c5 6 \$\frac{1}{2}\$d2 \$\frac{1}{2}\$e4 7 \$\frac{1}{2}\$e2 c4:

a21) 8 \$\phid2 f4 9 gxf4 \$\phixf4! 10 \$\phic3\$ (10 \$\phic2 \$\phig3! 11 \$\phif1 \$\phih2 12 \$\phif2 g3+ 13 \$\phif3 a3 -+) 10...\$\phig3! -+.

a22) 8 a3 f4 9 gxf4 \$\Pixf4! 10 \$\Pif2 g3+\$
11 \$\Pie2 \$\Pie4! 12 \$\Pid2 \$\Pid4! 13 \$\Pie2 c3!\$
14 bxc3+ \$\Pixc3! -+.

b) The game actually continued 1 \$\precedege d2? \$\precedege 42 \$\precedege 2 a5 (D):



b1) 3 b3 h5! (3...c5? 4 \$\d2! \$\d4 5 \\ g4! fxg4 6 hxg4! \$\delta e4 7 \$\delta c3! \$\delta f4 8 \$\delta c4\$

\$\preceq\$xg4! 9 \$\preceq\$xc5 \$\preceq\$g3 10 b4 axb4! 11 \$\preceq\$xb4! =) 4 h4 g4 -+.

b2) 3 **\$**d2:

b21) 3...f4?, Chandler's actual move, gave Fedorowicz a last chance to save himself:

b211) The game ended 4 gxf4? \$\prec\$xf4! 5 \$\prec\$e2 \$\prec\$g3 6 \$\prec\$f1 a4 7 \$\prec\$g1 h5 8 b3 axb3 9 axb3 c5 10 \$\prec\$f1 \$\prec\$h2 0-1 (due to 11 \$\prec\$f2 g4! 12 h4 \$\prec\$h1! 13 \$\prec\$g3 \$\prec\$g1! -+).

b212) 4 g4! a4 (4...f3 5 gxf3+! \$\Delta xf3!\$
6 a4 c5! 7 \$\Delta d3 \$\Delta g3 8 \$\Delta c4! \$\Delta xh3! 9\$
\$\Delta xc5! \$\Delta xg4! 10 b4! =) 5 \$\Delta e2! c5 6 b3\$
(Wilhelmi; 6 a3? c4 7 \$\Delta d2 \$\Delta d4! 8 \$\Delta c2\$
\$\Delta e3! 9 \$\Delta c3 \$\Delta f2 = +) 6...a3 7 \$\Delta f2!! \$\Delta d3\$
8 \$\Delta f3! \$\Delta d2 (after 8...\$\Delta c2 9 \$\Delta e2! \$\Delta b2\$
10 \$\Delta d2 \$\Delta xa2 11 \$\Delta c2! = the full depth of White's defensive idea is apparent) 9
\$\Delta f2! \$\Delta c3 10 \$\Delta e2 \$\Delta c2 11 \$\Delta e1! \$\Delta d3\$ 12
\$\Delta f2! \$\Delta d2 13 \$\Delta f3! \$\Delta e1 14 \text{ g3! (14 h4?}\$
\$\Delta d1 15 \text{ hxg5 hxg5! 16 \$\Delta f2 \$\Delta d2! 17 \$\Delta f3\$
\$\Delta e1! \$-+) 14...fxg3! 15 \$\Delta xg3! \$\Delta f1 16\$
\$\Delta f3! \$\Delta g1 17 \$\Delta g3! \$\Delta h1 18 h4! \$\Delta g1 19\$
\$\Delta f5! =.

b22) 3...\$d4 4 \$e2 h5 5 \$d2 c5 6 \$e2 \$e4 7 \$d2 f4 -+.

1...fxg4

1...f4 2 \(\pm \)d2! c5 3 b3 a5 (3...c4 4 b4! =) 4 a3! c4 5 b4! =.

2 hxg4! \$\pmeq\$e4 3 g3! c5 4 b3! \$\pmeq\$d4 5 \$\pmeq\$d2! a5 6 a3! c4 7 b4! axb4 8 axb4! c3+ 9 \$\pmeq\$c2! \$\pmeq\$c4! 10 b5! =

A11.07 J.Klinger – L.Ftačnik, Novi Sad OL 1990

As Ftačnik's detailed analysis (CBM 22, Inf 50/476) shows, he made life difficult for himself:

1...\$e5?!

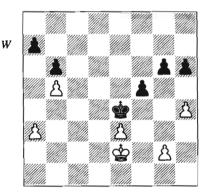
1...\$\psi 5?! 2 \$\psi 63 \$\psi c4? (2...\$\psi 5! 3 b5 h6! -+; compare the main line) 3 \$\psi 64\$
\$\psi 53 4 g4! (4 \$\psi g5? \$\psi xa3! 5 \$\psi h6 \$\psi xb4 6\$
\$\psi xh7 a5! 7 \$\psi xg6 a4! 8 h5 a3 -+) and now:

a) 4...a5 5 bxa5 bxa5! 6 gxf5 gxf5! 7 \$\prec{\prec}{2}\prec{\prec}{2}\$ \$\prec{\prec}{2}\$ \$\prec{\prec}

- b) 4...fxg4 5 \$\pixg4\$ h6 (5...\$\pic4? 6 \$\pig5! \$\pid3 7 \$\pih6! \$\pixe3 8 \$\pixh7! +--; 5...\$\pixa3? 6 e4! \$\pixb4 7 e5! \$\pic5 8 \$\pig5! +--; 5...\$\pixa3? 6 bxa5 bxa5! 7 e4 \$\pic4! 8 \$\pig5\$ \$\pid4! 9 \$\pih6 \$\pixe4! 10 \$\pixh7 \$\pif5! 11 a4 =) 6 e4! (6 \$\pif4? \$\pixa3! 7 b5 \$\pib4 8 \$\pic5 9 e4 g5! 10 hxg5 hxg5! 11 \$\pid6 g4 12 e5 g3 13 e6 g2 14 e7 g1\$\pi 15 e8\$\pi + \$\pia5 16 \$\pie5 + b5 -+) 6...\$\pic4! 7 \$\pif4\$ \$\pid4 8 b5 g5 + 9 hxg5! hxg5 +! 10 \$\pif5! g4! 11 e5! =.
- c) 4...\$\psi xa3 5 gxf5! gxf5! 6 b5 \$\psi b4 7\$
 \$\psi xf5! \Psi xb5! 8 e4! \Psi c6! 9 \Psi f6 \Psi d7! 10
 \$\psi f7! \Psi d6! 11 \Psi f6! =.

With 1...b5!? Black secures the reserve tempo ...a6, which guarantees him victory: 2 \$\pmese2\$ \$\pmese2\$ \$\pmese4\$ \$\pmese3\$ \$\pmese2\$ \$\pmese3\$ \$

2 b5 \$\disperseq e4! 3 \$\disperseq e2 h6! (D)



4 g3

4 \$\ddot d2 f4 5 exf4 \ddot xf4! -+.

4 \(f2!?:

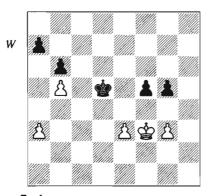
a) 4...g5? 5 hxg5! hxg5! 6 \$\pme2\$ g4 (6...\$\pme5 7 \$\pme3\$d5 8 a4 g4 9 g3 \$\pme5 10\$ \$\pme2\$d2! \$\pme4\$d6 11 \$\pme2\$c2! =) 7 a4 f4 8 exf4! \$\pmex\$f4! 9 \$\pme3\$f2! g3+ 10 \$\pme2\$e2! \$\pme4\$ 4 11 \$\pme3\$d2! \$\pme4\$d4 12 \$\pme2\$e2! \$\pme4\$c4 13 \$\pme3\$f3! \$\pme3\$b4 14 \$\pmex\$xg3! \$\pmex\$xa4! 15 \$\pme4\$h4 = (15 \$\pme3\$f4? \$\pmex\$xb5! 16 g4 \$\pme5\$c5! 17 \$\pme5\$ a5! -+).

- b) 4...\$\psi d3? 5 \psi f3 g5 6 hxg5! hxg5! 7 g3! (7 a4? \psi c4 8 e4 fxe4+ 9 \psi xe4 \psi b4 10 \psi f5 \psi xa4! 11 \psi xg5 \psi xb5! 12 g4 a5! 13 \psi f5 \psi c6 14 g5 \psi d6! -+) 7...\$\psi c4 8 e4! fxe4+ 9 \psi xe4! \psi xb5 10 \psi f5 \psi a4 11 \psi xg5 \psi xa3 12 \psi f6 =.
- c) Only the elegant move 4...\$d5!! wins, as the black king is either quicker to reach the queenside, or is in time to exert pressure in the centre. 5\$\pm\$f3 (5\$\pm\$e2\$\pm\$c4 -+) 5...g5! (5...\$\pm\$c4? 6\$\pm\$f4! =) 6 hxg5 hxg5! 7 g3\$\pm\$e5! 8\$\pm\$f2 g4! 9\$\pm\$e2\$\pm\$d5 10\$\pm\$d3\$\pm\$c5! 11 e4 fxe4+! 12\$\pm\$xe4\$\pm\$xb5! 13\$\pm\$f4\$\pm\$a4! 14\$\pm\$xg4\$\pm\$xa3! 15\$\pm\$f4\$\pm\$b4! 16 g4\$\pm\$c5! 17\$\pm\$e5 a5! -+.

4...\$d5! 5 \$f3

5 h5 gxh5 6 \$\psi f3 \$\psi e5 7 a4 h4 8 gxh4 h5! 9 \$\psi f2 \$\psi e4! 10 \$\psi e2 f4! -+.

5...g5 6 hxg5 hxg5! (D)



7 a4

White has used up all his reserve tempi and is outmanoeuvred.

7 g4 fxg4+ 8 \$\prec\$xg4 \$\prec\$e4! 9 \$\prec\$xg5 \$\prec\$xe3! 10 \$\prec\$f5 \$\prec\$d4 11 \$\prec\$e6 \$\prec\$c4 12 a4 \$\prec\$b4 -+.

After 7 \$\psice f2!? \$\psic 4\$ (7...\$\psice 4? 8 \$\psice 2\$ g4 9 a4! =) 8 \$\psi f3\$ \$\psi d3!\$ (8...\$\psi xb5? 9 g4!\$ fxg4+! 10 \$\psi xg4!\$ \$\psi c6\$ 11 \$\psi xg5\$ b5 12 e4 a5 13 e5! \$\psi d7\$ 14 \$\psi f5!\$ a4 15 \$\psi e4\$ b4 16 \$\psi d3\$ b3 =; see 6.01H) it is White to play in the reciprocal zugzwang and so he loses: 9 a4 \$\psi c4\$ 10 e4 (10 g4 fxg4+! 11

\$\psix \quad \psi \dag \quad \qu

7...\$e5 8 \$\pmeqe2 \$\pmeqd6 9 \$\pmeqf3 \$\pmeqd5 10 \$\pmeqe2 \$\pmeqc4 0-1\$

11 \$\psid2 (11 \$\psif3 \$\psid3 12 \$\psif2 g4 -+) 11...\$\psid4 12 \$\psid3 \$\psixa4 13 \$\psic4 g4 14 \$\psid5 \$\psixb5 15 \$\psic5 a5 16 \$\psixf5 a4 -+.

A11.08 R.Dautov - S.Reshevsky, Moscow GMA Open 1989

You have certainly noticed that White wins the fight for tempi. But have you also realized that this is in vain?

1...\$f6 2 \$e3 \$f5! 3 h4 h5!

3...\$\pmeq 4? 4 \pmeq xe4! \pmeq xh4 5 \pmeq f5! \pmeq g3 (5...h5 6 \pmeq 6 \pmeq g3 7 f5! h4 8 f6 h3 9 f7 h2 10 f8\pmeq h1\pmeq 11 \pmeq d7 +--) 6 \pmeq g5! h6+ 7 \pmeq xh6! \pmeq xf4 8 \pmeq g6 \pmeq e5 9 \pmeq f7 winning for White.

4 a3! a5!

4...\$66? 5 \$xe4! \$g6 6 f5+ \$f7 7 \$f4 \$f6 8 b4 cxb4 9 axb4! \$f7 10 \$g5 and White wins.

5 a4! \$66 1/2-1/2

In view of 6 $2 \times 4 \times 6!$ 7 f5+ 2×6 8 $2 \times 6!$ 9 $2 \times 6!$ 9 9

A11.09 Randviir - P.Keres, Pärnu 1947

In this position, which was analysed in detail by Paul Keres in *Practical Chess Endings* (No. 56), Black has to play very accurately and keep the spare tempo ...h6 until the right moment comes.

1...**\$**b5!

1...2b6? 2 2c4! a5 3 a4! (now Black is forced to use up his spare tempo) 3...h6! 4 2c3 =.

2 a4+ \$\precepbe{6}\$! 3 \$\precepc{4}\$c4 a5! 4 d6

4 \$\preceq\$c3?! loses more quickly: 4...\$\preceq\$c7! 5 \$\precep\$d3 \$\precep\$d6 6 \$\precep\$c4 h6! 7 \$\precep\$b5 \$\precep\$xd5! 8 \$\precep\$xa5 \$\precep\$c6 -+.

4....堂c6! 5 d7 堂xd7 6 堂xc5 堂e7 7 堂d5

7 **\$**b5 h5 −+.

7...\$f7 8 \$e4 \$f8

This fine waiting move gets White into a deadly zugzwang.

9 \$\psi e^3 \$\psi e^7!\$ 10 \$\psi e^4 \$\psi d6!\$ 11 \$\psi d4\$ h6!

The spare tempo wins the opposition and thus the game.

12 \$\pmeq4\$ \$\pmeqc5!\$ 13 \$\pmeq6\$ \$\pmeq\$ \$\pmeq\$ 14 \$\pmeq\$ d3 \$\pmeq\$ \$\pmeq\$ 5!\$ 15 \$\pmeq\$ 63 \$\pmeq\$ 65!\$ 16 \$\pmeq\$ 6 18 \$\pmeq\$ 64 \$\pmeq\$ 17 19 \$\pmeq\$ 65 \$\pmeq\$ 67 0-1

A11.10 A.Alekhine - Yates, Hamburg 1910

With the help of his extra pawn Alekhine managed to produce a 'don't touch me' formation that is fatal for Black.

1 **☆d3**

1 \$\psib 64? \$\psib 64! 2 \$\psib xb5 \$\psi xe5! 3 \$\psi xa4\$\$ \$\psib 64! 4 \$\psi xe3! =; 1 \$\psi d4? \$\psib 64! 2 \$\psi 64! 3 \$\psib c3! \$\psi xe5 4 \$\psi d3! =; 1 \$\psi 4 +-.\$\$

1...\$\d7 2 e4 f4

2...\$\psie6 3 \extra xf5+ \psi xe5 4 \psic3 +-.

3 \$\preceq\$e2 \$\preceq\$e6 4 \$\preceq\$f2! 1-0

Yates resigned due to 4...\precextender 5 \precepts f3!.

A11.11 K.Müller, Original

Black's only defensive idea is a selfstalemate. This idea is the basis for the following fight for tempi:

1 c4!

1....25

1...a6 2 b4 \$\Delta\$h2 3 c5 \$\Delta\$h1 4 a4 +-; 1...b6 2 b4 a5 3 c5 +-; 1...\$\Delta\$h2 2 b4 +-. 2 c5!

2 a4? b6 =; 2 b3? b6! (2...\$\dag{\phi}h2? 3 c5! \$\dag{\phi}h1 4 a3! \$\dag{\phi}h2 5 b4! axb4 6 axb4! \$\dag{\phi}h1 7

2...a4

2...\$\psi 2 3 b3! \$\psi 1 4 a3! \$\psi 12 5 b4! axb4 6 axb4! \$\psi 11 7 b5! b6 8 \$\psi 11 12 9 \$\psi 12! +-.

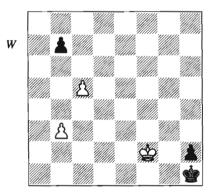
3 b4!

3 b3? a3! =.

3...axb3

4 axb3! h2 (D)

4... 全h2 5 b4! 全h1 (5...b5 6 cxb6 全h1 7 b7 h2 8 全g3 全g1 9 b8豐! h1豐 10 豐b6+全f1 11 豐f2#) 6 b5! +-.



5 c6!! b5

Or 5...bxc6 6 b4! c5 7 b5! c4 8 b6! c3 9 b7! c2 10 b8\(\exists'!\) c1\(\exists''\) 11\(\exists''\)b7+\(\exists''\)c6 12\(\exists''\)xc6\(\exists''\).

6 c7! b4 7 \$\preceq\$g3 \$\preceq\$g1 8 c8\$\preceq\$+-

■ In 1932, Jelinek created the following exercise (ECE 415): w\$c2,\$\tilde{1}2,g2\$, h2; b\$\dark{2}a1,\$\tilde{3}a2,f5,h7: 1 \$\dark{2}c1! +-. The game Mandler-Prohaska, Austria 1924 (ECE 1565) shows similar ideas with a very nice prelude: w\$\dark{2}c6,\$\tilde{3}a3,b4,g2,h3\$;

b\$f2,\text{\text{\text{\Lambda}}}a7,h4: 1 \$\phid5!! \$\phixg2 2 \$\phie4!\$ \$\phixh3 3 \$\phif3!\$ \$\phih2 4 \$\phif2!\$ \$\text{\text{\text{\text{\Lambda}}}6!\$ \$\phih1 6\$ \$\phif1!\$ \$\text{\te\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\te

A11.12 J.Bany - P.Rechmann, Porz Citroen Cup 1990

The white king-march to f5 is obvious and would be decisive due to the spare tempi. Therefore you had to act immediately:

1...g5!

- 1...\$\dot\delta g8? 2 \dot\delta f8 3 \dot\delta f5 \dot\delta f7 4 f3 (4 f4 g6+ 5 hxg6+ \dot\delta g7 6 \dot\delta 6! \dot\delta xg6 7 f5+ \dot\delta g5 8 \dot\delta f7 \dot\delta xg4 9 \dot\delta xf6! h5 10 \dot\delta 65 +--) 4...\delta e7 5 \dot\delta g6 \dot\delta f8 6 f4 \dot\delta g8:
- a) 7 g5?! hxg5 8 fxg5! fxg5 9 \$\prec{1}{2}\$xg5 \$\prec{1}{2}\$h7:
- a1) 10 \$\psi\$f5? \$\psi\$h6! 11 \$\psi\$e6 \$\psi\$xh5! 12 \$\psi\$xd5 g5!:
- a11) 13 \$\text{ de 4} \text{ de 6!} 14 \$\text{ de 5!} \text{ g4!} 15\$\$\$\$ \$\text{ df 4!} \text{ dh 5!} (15...\text{ df 6?} 16 \$\text{ dx g4!} \text{ de 6} 17\$\$\$\$\$ \$\text{ df 4} \text{ dd 5} 18 \$\text{ de 3!} \text{ dc 4} 19 \$\text{ de 4!} \text{ dx b4} 20 \$\text{ d5!} +--) 16 \$\text{ d5!} \text{ g3!} 17 \$\text{ dx g3} \text{ dg 5!} =.
- a12) 13 全c6 g4! 14 d5! g3! 15 d6! g2! 16 d7! g1豐! 17 d8豐! 豐c1+ 18 全xb5 =.
- a2) 10 \$\prescript{\pr
- b) 7 \$\psi f5 \$\psi f7 8 g5 fxg5 9 fxg5! hxg5 10 \$\psi xg5! \$\psi g8 (10...\$\psi e7 11 \$\psi f5 \$\psi f7 12 \$\psi e5! +-) 11 h6 gxh6+ 12 \$\psi xh6 \$\psi f7 13 \$\psi g5! \$\psi e6 14 \$\psi g6 +-.\$
- 1...g6? 2 \$\psi f4 \$\psi g7 (2...f5 3 f3! +-) 3 hxg6! +- see under 2...\$\psi g7?.

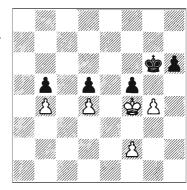
2 hxg6+ **\$**xg6!

2...\$\perp g7? 3 \$\perp f4! \$\perp xg6 4 f3! f5 5 \$\perp e5!\$ fxg4 6 fxg4! \$\perp g5 7 \$\perp xd5! \$\perp xg4 8 \$\perp e5!\$ +--.

3 **⊈**f4

3 \$\psih4 f5! 4 f3 (4 gxf5+?! \$\psixf5 5 \$\psih5! \$\psie4 6 \$\psixh6! \$\psix4 7 f4 \$\psie4 8 \$\psig5! d4 9 f5! d3 10 f6! d2 11 f7! d1\$\psi 12 f8\$\psi!=) 4...f4! 5 \$\psih3! \$\psig5 6 \$\psig2 \$\psih4 7 \$\psih2!=.

3...f5! (D)



4 gxf5+!?

4 f3? \$f6! 5 \$g3 \$g5! 6 \$h3 fxg4+! 7 fxg4 h5! -+.

4 空e5? fxg4! 5 堂xd5 h5! 6 堂e5 (6 堂e6 h4! 7 d5 h3! 8 d6 h2! 9 d7 h1豐! 10 d8豐 豐e4+ 11 堂d7 豐d5+ 12 堂c8 豐xd8+ 13 堂xd8 堂f5 14 堂e7 堂f4 15 堂f6 堂f3 16 堂f5 堂xf2! 17 堂xg4 堂e3 —+) 6...h4! 7 堂f4 h3! 8 堂g3 堂f5 and Black wins.

4 \$\preceq g3?! fxg4 5 \$\preceq xg4! h5+ 6 \$\preceq h4\$ \$\precep h6 7 \$\precep h3! \$\precep g5 8 \$\precep g3! \$\precep f5 9 \$\precep h4!\$ \$\precep e4 10 \$\precep xh5! \$\precep xd4 11 f4 =.

4...\$f6! 5 \$g4! h5+

5...\$\psi 7 6 \psi h 5 \psi f 6! 7 \psi x h 6 \psi x f 5! 8 \$\psi h 5 \psi e 4 9 \psi g 5 \psi x d 4! 10 f 4 =.

6 **\$**xh5

6 \$f4 h4! 7 \$g4! h3! 8 \$xh3 \$xf5!

A11.13 K.Müller - N.Narings, Dutch jr Ch (Arnhem) 1988

White's winning plan is first to get the king to f6, then to exchange the kingside by g4, f5 and again \$\displaysis 6\$ and e6 so as then to use the more active king position. Therefore Black has to take care that his queenside pawn-structure doesn't become too weak. This can only be managed by an exchange at b4.

1...cxb4!

The game in fact continued 1...a5? 2 bxa5 bxa5 3 \$\times 5\$ \$\times 67\$ 4 g3 \$\times 68\$, when White could exchange the kingside pawns and win: 5 \$\times 66\$ \$\times 86\$ 6 g4 \$\times 68\$ (6...c4 7 f5 exf5 8 gxf5! gxf5 9 \$\times xf5\$ \$\times 67\$ 10 \$\times 67\$ 4 \$\times 67\$ 11 \$\times 68\$ 2 \$\times 68\$ 12 \$\times 68\$ 12 \$\times 68\$ 12 \$\times 68\$ 13 \$\times 65\$ +- 1-0.

1...c4? can be cut off by b5 and then be captured by the white king. In this line White can even allow the kingside to be closed once he has captured the c4-pawn since he has the option c3-c4-c5xb6 with a new route on the queenside. Specifically:

a) 2 \$\psi_5\$ \$\psi_6\$ 7 3 g3 a6 4 g4 b5 5 axb5! (5 a5? \$\psi_6\$ 8 6 \$\psi_6\$ \$\psi_6\$! 7 f5 exf5 8 gxf5! gxf5! 9 \$\psi_6\$ xf5 \$\psi_6\$? 10 \$\psi_6\$ 4 \$\psi_6\$ 7 11 \$\psi_6\$ \$\psi_6\$ 12 \$\psi_6\$ 4 f6! 13 exf6! \$\psi_6\$ xf6! 14 \$\psi_6\$ \$\psi_6\$! 15 \$\psi_6\$ \$\psi_6\$! 16 \$\psi_6\$ \$\psi_6\$! 17 \$\psi_6\$ a6! \$\psi_6\$ 21 18 \$\psi_6\$ \$\psi_6\$ 19 a6 c3! 20 a7 c2! 21 a8 \$\psi_6\$ c1 \$\psi_1\$! 22 \$\psi_6\$ 5+ \$\psi_6\$ 2 and the position is a theoretical draw because White can't force the exchange of queens) 5...axb5 6 f5! exf5 7 gxf5! gxf5 8 \$\psi_6\$ xf5! +-.

b) 2 b5 \$\preceq\$e8 3 \$\preceq\$g5?! \$\preceq\$e7 4 g3 \$\preceq\$e8 5 \$\preceq\$f6 \$\preceq\$f8 6 g4 \$\preceq\$e8:

b1) 7 f5? exf5 8 gxf5! gxf5! 9 \$\psixf5\$ \$\psixet 27 10 \$\psi f4 \$\psi e6 11 \$\psi e4\$! f6! 12 exf6! \$\psixet xf6! 13 \$\psi d5 \$\psi f5! (13...\$\psi e7? 14 \$\psi e6\$! +-) 14 \$\psi e6 (14 \$\psi xc4 \$\psi e4\$ =) 14...\$\psi e4\$! 15 \$\psi b7! \$\psi d3\$! 16 \$\psi xa7! \$\psi xc3! 17 a5 \$\psi b4 18 axb6 c3! 19 b7 c2! 20 b8\$\psi c1\$\psi! 21 \$\psi e5 \$\psi a3 + 22 \$\psi b7 \$\psi f3 + =.\$

b2) 7 \(\partial g5! \) \(\partial e 7 \) 8 \(\partial h 4! \) f6 9 g5 fxe5 10 fxe5! \(\partial d 7 \) 11 \(\partial g 4 \) +-.

2 cxb4! \$\precede 8 3 \$\precede g 5 \$\precede e 7 4 b 5 \$\precede e 8 5 \$\precede f 6 \$\precede f 8! 6 g 4 \$\precede e 8! 7 f 5 exf 5 8 gxf 5! gxf 5! 9 \$\precede x f 5 \$\precede e 6 = 6 \precede e 7 = 6 \precede e 7 \precede e

A11.14 H.Neustadtl – Porges, 1901

Since the black king has to prevent the penetration of the white king via the d4square, Black can be forced into zugzwang by a triangulation and compelled to move the h-pawn. This pawn will finally fall prey to White's king and the white hpawn will make a decisive breakthrough.

1 \psi f3!

Not 1 h3?:

a) 1...h4? 2 \$\psi_3! \$\psi_6 3 \$\psi_94! \$\psi_6 4\$ \$\psi_xh4! \$\psi_6 4 5 \$\psi_94! +- (5 \$\psi_93? \$\psi_6 3! 6\$ h4 \$\psi_6 4! 7 \$\psi_94! \$\psi_6 3! 8 \$\psi_93! =).

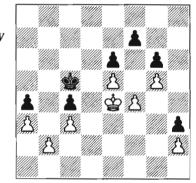
b) 1...\$c5! 2 \$e4 h4 3 \$e3 \$c6! 4 \$f2 \$c5! =.

1...\$c62\$f2\$c53\$e2\$c64\$f3! \$d55\$e3!\$c56\$e4!h4

6...\$c67\$d4!\$b58h4!+-.

7 앞f3! 앞d5 8 앞e3! 앞c5 9 앞e4! h3

9...\$c6 10 \$d4! \$b5 11 h3! +-; 9...\$b5 10 \$d4 +-.



15...\$\pmes 3 16 \pmes g3 \pmes 4 17 h4 \pmes 3 18 h5! gxh5 19 f5! exf5 20 g6!? fxg6 21 e6 f4+ 22 \pmes h2 +--; 15...\$\pmes d5 16 \pmes f3 \pmes c6 17 \pmes 4 \pmes c5 18 h3 \pmes c6 19 \pmes d4 \pmes b5 20 h4 +--.

16 **⊈**f3

16 f5 exf5+ 17 $\text{$\circ}$ f3 +-.

16...\$c2 17 h4 \$xb2 18 h5 gxh5 19 f5! exf5 20 g6 fxg6 21 e6! \$xa3 22 e7! \$b2 23 e8\$! a3 24 \$\times b5 + +- 1-0

A real classic.

A11.15 S.Kindermann – H.Wirthensohn, *Hamburg SKA 1991*

Since the white king cannot invade the black position right now, only a temporary pawn sacrifice and very precise play can help:

1 f5!!

1 **2**e4? f5+ =.

1...gxf5

1...g5 2 f6 \$c7 3 \$e4 \$d7 4 \$f5 +-; 1...\$c7 2 \$e4 \$d7 3 \$f4 \$e8 4 \$g5 gxf5 5 \$xh5 +-.

2 \(\Perp e3!

Heading towards the h-pawn; after its loss White will win because of his outside passed pawn.

2...e5 3 dxe6! fxe6 4 \$\psi f4! \$\psi c7 5 \$\psi g5 5 h4 \$\psi d7 6 \$\psi g5!:

- a) 6...e5 7 \$\preceq\$xf5! \$\preceq\$e7 8 \$\preceq\$g5! d5 9 cxd5! \$\preceq\$d6 10 g4!? (avoiding the queen ending after 10 \$\preceq\$xh5: 10...e4 11 \$\preceq\$g4! \$\preceq\$xd5 12 h5 \$\preceq\$c4 13 h6 \$\pmeq\$) 10...e4 11 \$\preceq\$f4! \$\preceq\$xd5 12 gxh5! +-.
- b1) 7...\$\perp 8 8 \$\perp xh5!\$ d5 9 cxd5!\$ (9 c5?? d4! -+) 9...exd5 10 \$\perp g5!\$ d4 11 \$\perp f4!\$ \$\perp f7\$ 12 \$\perp f3!\$ \$\perp g6\$ 13 g4 +-.
- b2) 7...e5 8 \$\primex\$xf5! \$\primex\$f7 9 \$\primex\$g5! \$\primex\$e6 10 \$\primex\$xh5! d5 11 c5!? bxc5 12 b6 \$\primex\$d7 13 \$\primex\$g4 c4 14 \$\primex\$f3 +-.
- b3) 7...d5 8 cxd5! exd5 9 \$\prec\$xf5! \$\prec\$d6 10 g4! d4 11 \$\prec\$e4! hxg4 12 \$\prec\$xd4! +-.

5...**⊈d**7

- 5...d5 6 cxd5! exd5 7 \$\preceq\$xf5! (7 \$\preceq\$xh5?? d4! -+) 7...\$\preceq\$d6 8 g4! hxg4 (8...d4 9 \$\preceq\$e4! hxg4 10 \$\preceq\$xd4! \$\preceq\$e6 11 \$\preceq\$e4! +-) 9 \$\preceq\$xg4! \$\preceq\$5 10 \$\preceq\$f3! +-.
- 5...e5 6 \$\prec\$xf5! h4 (6...\$\prec\$d7 7 h4! \$\prec\$e7 8 \$\prec\$g5! \$\prec\$e6 9 \$\prec\$xh5! \$\prec\$f5 10 g4+! +-) 7 g4! (7 gxh4? \$\prec\$d7 =) 7...h3 8 g5 \$\prec\$d7 9

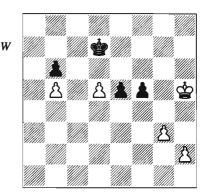
\$\presspace \text{g6} \cdot \text{g6} \text{ 10} \text{ \$\presspace \text{xh3} \$\presspace \text{f5} \text{ 11} \text{ \$\presspace \text{h4}! e4 12} \\ \text{g6} \text{ +-.}\$

6 \$\delta xh5 d5

6...e5 7 \$\dispsi g5! \$\dispsi e6 8 h4 e4 9 \$\dispsi f4! \$\dispsi f6 \)
10 g4 fxg4 11 \$\disp xe4 +-.

7 cxd5! e5 (D)

7...exd5 8 \$\precepg{9}g5! d4 9 \$\precepf{9}f4! \$\precepe 6 10 \$\precepf{3}f3 +--.\$



8 \plug g5! \plug d6 9 h4!?

9 \$\preceq\$xf5?! \$\preceq\$xd5 10 h4! e4 11 \$\preceq\$f4! \$\preceq\$d4 12 h5! e3 13 h6! e2 14 h7! e1 \$\preceq\$15 h8 \$\preceq\$+! \$\preceq\$c4 (15...\$\preceq\$d5 16 \$\preceq\$d5 \preceq\$5 + \$\preceq\$c5?! 16 \$\preceq\$e5 + \$\preceq\$xe5 + 17 \$\preceq\$xe5! \$\preceq\$xb5 18 g4! \$\preceq\$c6 19 \$\preceq\$e6 +--) 16 \$\preceq\$e5! \preceq\$.

9...**⊈**xd5

9...e4 10 \$\psi f4! \$\psi xd5 11 h5 \$\psi e6 12 g4 fxg4 13 \$\psi xg4 +-.

10 h5! f4!? 11 gxf4!

11 \$\psig4? \$\psie4! =.

11...e4 12 堂g4 堂c4 13 h6! e3 14 堂f3! 堂d3 15 h7! e2 16 h8豐! e1豐 17 豐d8+ 堂c4 18 豐xb6! 豐d1+ 19 堂g3 豐d3+ 20 堂g4 豐e2+ 21 堂g5 豐g2+ 22 堂f6 豐b2+ 23 堂f7 豐b1 24 豐g6 1-0

After 24...\wxb5, for example, 25\we4+\price c3 26\we5+ +- could follow.

12 Corresponding Squares

The theory of corresponding squares is one of the most difficult in pawn endings and up to now we have only dealt in detail with special cases like opposition and triangulation. But what exactly are corresponding squares? In an ideal case they are a system of exactly corresponding squares on which the kings are in reciprocal zugzwang (that means, for example. if the white king moves to a square of the system the black king has to move to the corresponding square in order to draw and White, in order to win, has to move in such a way that the black king can't move to the corresponding square because he is already on it or because he can't fly). However, not all examples that can be analysed according to the theory of corresponding squares fit this ideal picture, since reserve pawn moves and possible counter-attacks by the defending king can disrupt the pattern. We will include the resulting "system-transient corresponding squares" (Zinar) into the numbering scheme and if necessary we will assign several numbers to a single square.

Our chapter on corresponding squares is intended for the practical player even though there are a lot of studies. Our stress is therefore on the following questions:

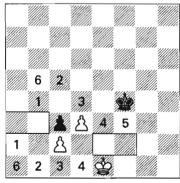
- How does one recognize a position of corresponding squares?
- How are the corresponding squares determined?
- How does the play proceed in a system of corresponding squares?

If you would like a more detailed and rather theoretical approach to the theory of

corresponding squares, we recommend an essay by the composer of studies, Zinar, in the last chapter of Averbakh's book (there he proposes a distinction between 11 special systems and explains what one has to do in each case).

A) Corresponding Squares in Previous Examples

In the previous chapters we have already analysed positions in which the knowledge of corresponding squares helped a lot to understand the position better. We shall again look at some of these examples in order to explain or train the determination of corresponding squares with the help of positions with which we are already familiar.



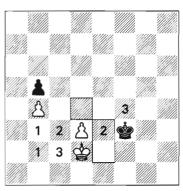
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12.01/A4.05 (e1=5) N.Grigoriev Izvestia, 1921

Naturally our main focus in this chapter is on the manoeuvres of the kings. We therefore always start with the determination of the key squares since they are decisive for the determination of the corresponding squares. Key squares are e2, f2 and b3, a3 (marked by boxes). If, like here, not all key squares are next to each other, their shortest connection (the 'shortest way') is significant. The shortest way from b3 to e2 for White leads across a2-b1-c1-d1, while Black defends himself via b4-c5-d4-e3. Since both sides have only one shortest way at their disposal here the squares of the shortest way are at the same time corresponding squares which we number from 1 to 4. Then we number the rest of the squares that are directly next to the key squares. The square el gets a 5 (note that corresponding squares which are occupied by pieces are indicated below the diagram to avoid making the diagrams too messy!). Due to the threat either to move to one of the key squares or to 4, f3=5 is the corresponding square (this protects the key squares and is next to the 4). If the white king is at f1 then the black king has to move to e3. Nevertheless this square doesn't receive a number because after 1...\preceqee e.g. 2 \preceq f1?? White even loses due to the counter-attack 2... d2!. Because of the edge of the board only the square a1=6 remains for king manoeuvres. It corresponds to the b5-square (in order to go to 1 or 2 if necessary).

Therefore, if Black is to move, he can only secure the draw if he keeps all corresponding squares. This is only possible by playing 1...\$13! 2 \$\frac{1}{2}\$ \$\frac{1}{2}\$

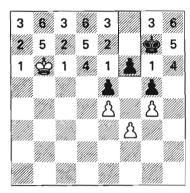
The drawing of the corresponding squares in the next example immediately makes the win visible (what a pity that during the game you are not allowed to draw on the board...):



12.02/4.04 (d2=1=f3) +/-N.Grigoriev K novoi armii, 1920

Here the key squares are d4, e2 and e3. The square d2=1 corresponds with f3=1, because Black can't leave the square of the d-pawn, c3=2 is adjacent to d4 and 1, which is only fulfilled by e3=2. The squares on the first rank don't get numbers because a counter-attack against the d-pawn would be possible. If we look at the other squares then White threatens to move from c2=3 to 1 or 2. These threats can only be answered by Black at f4=3. From b2 and b3 White threatens to move either to 2 or 3. Black only has one square from which he can move to 2 or 3, namely f3=1. Thus we can also assign a 1 to b2 and b3. It follows that White has more corresponding squares, and this secures the win. As we already know, the easiest route to success is 1 \price c2 \price f4 2 \price b3 \price f3 3 \$b2 \$f4 4 \$c2! \$f3 5 \$d2! \$f4 6 \$e2! +-.

The next two positions show that our knowledge of the different forms of opposition is based on corresponding squares:



12.03/7.04 (b6=4, g7=2) +/=

Key squares are f6, f7 and f8. With three or more key squares that are next to each other first you always have to number the adjacent squares that are parallel. Thus e6, e7, e8 = 1, 2, 3 correspond to g6, g7, g8 = 1, 2, 3 with Black. The squares d6, d7, d8 or h6, h7, h8 with Black get the numbers 4, 5 and 6. Afterwards the numbers repeat each other until a counterattack is possible, here even to the edge of the board, f7 and f8 don't get numbers since the f6-square isn't available to Black. If White stays on the fifth rank Black only has to parry the white threat to move to 1 or 4, thus to stay at 2 or 5. Since this is always possible, the squares of the fifth rank don't get numbers. White doesn't have a surplus of corresponding squares, because of which Black draws if he takes the corresponding square to b6 by 1... \$\ddots h6!.

The next example shows that even big systems of corresponding squares can arise (see following diagram):

Black mustn't leave the square of the a-pawn. Key squares are c4, d4 and e4-e7, as well as d7-a7 if Black gives up the defence of e8. For a better overview we start the numbering along the key squares on the e-file: White f4-f7=1-4=d4-d7

11	10	9	3a	7a	33	7a	3a
			4	8	4	8	4
11	10	9	3	7	13/1	7	3
11			2	Č.	2	6	2
2				5		5	
	凸		2	6	\$	6	2
,,,,,,,		,,,,,,,					

12.04/A4.04 (e5=6, f3=2) +/= After **Van Nyevelt**, Superiorité, 1792

with Black. Then we number g4-g7= 5-8=e4-e7 (defence on the key squares). A defence along the c-file isn't possible because there is no access to the c4square. The 2, 6 combination on the third rank is due to the key squares c4-e4. On the second rank there are no corresponding squares since Black can oscillate on 3 and 7 or 1 and 5 until White moves to the third rank. The squares 3a, 7a result from the key squares on the seventh rank. We have given them an 'a' because with a white king on f8 or h8 Black can either defend by ...\$\d6 or by ...\$\d8 (easier). But if the white king is on f6 or h6 (no anumbers!) only ... \$\d6 is correct. The numbers 9-11 result from the key squares c7-a7, a5 is an additional corresponding square since \$\display\$ a7 or \$\display\$ b7 leads to a stalemate. In this connection a7 and b7 are therefore inferior key squares.

1...\$\d5! =

Even though the diagram looks to be unclear, Black always draws by taking the appropriate form of opposition.

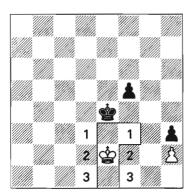
After these introductory examples our first question can be largely answered: one recognizes the issue of corresponding squares by the fact that there are not many pawn moves still possible and that

there are at least two squares that correspond to each other.

If you have detected two corresponding squares it's usually worth looking for more.

B) Bishop's Pawn and Rook's Pawn vs Rook's Pawn

With the help of this important pawn formation we will examine how the possibility of further pawn moves affects a system of corresponding squares. Our starting point is a position that is familiar from Chapter 5 (5.10 = 12.08). In order to understand its system of corresponding squares it is necessary to deal with positions in which the h-pawn is far-advanced. Due to the dangers of a possible stalemate, the f-pawn shouldn't be pushed forward too early, and because of this the analysis of corresponding squares makes sense. We start with the pawn at h3:



12.05 =/= C.Rösch - V.Mast (colours changed) Lingen 1995

This position is drawn, whoever is to move. Key squares are e3-e1 plus f3 and

corresponding squares are d3-d1=1-3= f3-f1. There are no further corresponding squares because one can defend two key squares that are next to each other (e3, f3) by simple oscillation. In that way it's not important that White to move loses the vertical opposition. It follows that the h-pawn shouldn't be pushed to h3 too early.

1 \plus f2! \plus d3

The game concluded 1...f4 2 \(\preceq \text{2}\)! \(\preceq \text{5} 3 \) \(\precep \text{f3} \) \(\precep \text{5} 4 \) \(\precep \text{c4} 4 \)

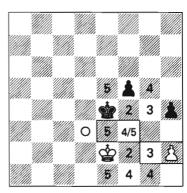
1...\$\pm\$d4!? 2 \$\pm\$e2! = (2 \$\pm\$g3? \$\pm\$e3! 3 \$\pm\$xh3 f4 4 \$\pm\$g2 \$\pm\$e2! -+; 2 \$\pm\$f3? \$\pm\$d3! -+).

. 2 �f3! �d2 3 �f2!

3 \$\psi f4? \$\pme e2! 4 \$\pm xf5 \$\pm f3! -+.

3...\$d1 4 \$f1! =

Now to a pawn at h4:



Obviously the key squares are e3, f3 and g2, h2. As we know from 12.05, the d3-square plays a special role (with kings at d3 and f3, ...h3! wins). We haven't continued our numbering on the d-file as White doesn't have to take the opposition

there but can also counter-attack via f3. If the kings fight for the third rank on the queenside then White can only save himself by taking the (distant) opposition, provided he is more than one file ahead in the race to the kingside.

1 \$\psi_2 \$\psi_43! 2 \$\psi_5 h3!

2... 2... 4d2? 3 4f4 = ...

3 \place f2

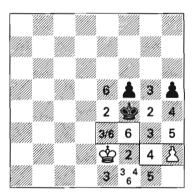
 $3 \ \phi f4 \ \phi e2! 4 \ \phi xf5 \ \phi f3! -+.$

3...\d2! -+ 0-1

Notice also that the position with w\$\pmu\$f3 v b\$\pmu\$g5 is a reciprocal zugzwang.

Position 12.06 actually occurred in Vaganian-Sunye, Rio de Janeiro IZ 1979 and Boey-Hamann, Skopje OL 1972.

With a pawn at h5 the situation is as follows (the position corresponds to a study by Maizelis from 1955):



12.07 (e2=1=f4) -/= H.Ree - Z.Ribli (colours and wings changed) Amsterdam 1973

The numbering explains itself by the black option for a transition into 12.06 by ...h4. Since there only the opposition draws, one has to avoid it here. Thus White is in zugzwang and loses:

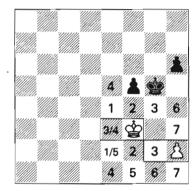
1 \$12 \$e4 2 \$e2 h4! 3 \$12 \$d3! 4 \$13 h3! 5 \$12 \$d2! 6 \$13 \$e1! 7 \$e3 \$11! 8 \$13 \$g1! 9 \$g3 \$14+! 0-1 If Black is to move, he can't make any progress since White has the 'anti-opposition':

ି 1... ውe4 2 ው[2! ው[4 3 ውe2! ውg4 4 ው[2! ውከ4 5 ው[1

5 \$\psig1? \$\psih3! 6 \$\psih1 \$\psig4! 7 \$\psig2 h4 \\ -+ (12.06).

5...\$\psi 3 6 \psi g1! f4 7 \psi h1! \psi g4 8 \psi g2! h4 9 \psi f2! =

As a crowning finale we now discuss the situation with a pawn at h6 in more detail:



12.08/5.10 (f3=4,5,6, g5=5) =/=
R.Vaganian – J.Sunye Neto
Rio de Janeiro IZ 1979

From 5.10 and 12.05-12.07 we know that White has to take the opposition on the second rank after the h6-pawn has moved to h4. Since this takes another two moves (an even number), White also now has to get the opposition on the second rank. It follows e4-g4=1-3=e2-g2. After ...\$\div h4\$ either the passive \$\div g1\$ or \$\div f3\$ (or \$\div f4\$), with a counter-attack against the f-pawn, is possible. Also after ...\$\div g4\$ White still has a trump in the threat of a counter-attack after \$\div e3\$. It follows that the square \$g5=5\$ corresponds with the squares f3, e2 and f1:

 $1 \approx e2!! =$

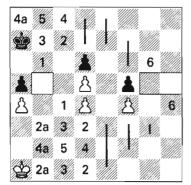
The obvious 1 23?, as played in the game, fails to 1...h5! 2 14 f3 h4! + (12.06).

With Black to move, the position is evidently a draw:

1...h5
1...\$h4?! 2 \$\psi f4! =.
2 \$\psi g3
2 \$\psi e3 \$\psi g4 3 \$\psi f2! = (12.07).
2...\$\psi f6 3 \$\psi f4 \$\psi e6 4 \$\psi e3 4 \$\psi g5? \$\psi e5! 5 \$\psi xh5 f4 -+.
4...\$\psi e5 5 \$\psi f3
5 \$\psi d3 \$\psi f4 6 \$\psi e2! =.
5...h4 6 \$\psi e3! = (12.06)

C) Complicated Cases

Now that we have focused on the determination of corresponding squares, we would now like to look at some studies that deal with the issue of manoeuvres.



12.09 (a7=2a) +/= Em.Lasker & G.Reichhelm Chicago Tribune, 1901

Key squares are b5, g5 and h5. The shortest way for White is c4-d3-(e2/e3)-(f2/f3)-g3-h4. On the black side only b6-c7-(d7/d8)-(e7/e8)-(f7/f6)-g6 isn't longer. The drawn lines indicate that the squares e1-e3 correspond to the squares

d7-d8 (and also f2/f3 correspond to e7/e8 and g3 corresponds to f6/f7). On the kingside Black has a surplus of corresponding squares because of which we there only number h4=6=g6 (once the black king is on the kingside he also has the option of counterplay against the white f-pawn, so White can't reverse his tracks once he has gone to the kingside). For a determination of a system of corresponding squares on the queenside therefore only the distance to the key squares on the kingside is of interest. In other words: squares on the d-file for White have to correspond with squares on the c-file for Black. Thus: c4=1=b6, d3=2=c7, c3=3=b7, d2=4=c8, c2=5=b8. The remaining squares on the b-file and on the first rank for White don't create any new threats and can therefore be assigned numbers that we have already used. The squares on the b-file will be assigned an additional 'a' because Black is able to defend himself accordingly on the c-file as well as on the a-file. We also add a7=2a and a8=4a for Black. a1-a3 will not be numbered since they correspond with b7 as well as with b8.

How does play now proceed in the determined system? The defender (Black) always has to be on the corresponding square. If this is, as in this case, not possible, the opponent's threat (here to occupy b1=2 or b2=4) has to be parried. Black to move manages this by either 1... \$b7 or 1... \$\polenote{\phi}b8. The attacker (White) also has to occupy the corresponding square in order to win or he has to move in such a way that the defender isn't able to get to the corresponding square. Thereby the attacker should try to get closer to the key squares and at any rate he shouldn't move away from them. If White is to move, he therefore moves to a corresponding square of a7:

1 **☆**b1!

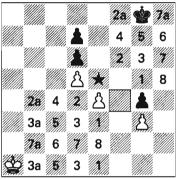
1 \$\phib2? \$\phia8!! =; 1 \$\phia2? \$\phib7 2 \$\phib3\$
\$\phic7 3 \$\phic3 \phib7! 4 \$\phid3 \$\phic7! 5 \$\phie2\$
\$\phid7 6 \$\phif3 \$\phic7 7 \$\phig3 \$\phif7 8 \$\phib4 \$\phig6!\$
=

1...\$b7 2 \$c1! \$c7 3 \$d1! \$d8 4 \$c2!

Black would need wings to reach the corresponding square, b8!

4...\$\psic 8 5 \psi d2! \psi d7 6 \psic 3! \psic 7 7 \psi d3! \psi b6 8 \psi e3 +-

White penetrates on the kingside.



12.10 (g8=3a) +/= Locock British Chess Magazine, 1892

In addition to the obvious key square f4 with the pair of corresponding squares e3=1=g5 we have a second pair d4=2=f6 because of White's threat to play e5. There are no further key squares on the queenside because of the possible counter-attack against e4. Connecting squares are d3=3=g6. c4, c3, c2, d2 and e2 (=4-8) correspond to f7, g7, h7, h6 and h5. The remaining corresponding squares accordingly will be numbered with already used numbers. Due to the aforementioned counter-attack there are no clear corresponding squares on the a-file and if White moves to the f-file Black only has to oscillate between g6 and h6, which

again isn't clear-cut. If Black is to play, he draws by 1...\$27 or 1...\$h7 while if it is White's move, he wins as follows:

1 **\$**b1!

1 \$\psi_02? \$\psi_08!! 2 \$\psi_03 \$\psi_08! 3 \$\psi_03\$\$
\$\psi_07! 4 \$\psi_04 \$\psi_0f6! =; 1 \$\psi_02? \$\psi_07 2 \$\psi_03\$\$
\$\psi_06 = (2...\$\psi_06? 3 \$\psi_02! +-).

1...\$g7 2 \$c1! \$g6 3 \$d1! \$g5 4 \$c2!

White exploits the fact that Black can't move to h7. After 4 \$\preceq\$e1?! \$\preceq\$g6 White has to return.

4...\$h6 5 \$d2! \$h5 6 \$c3!

Black had to leave g7 unwatched. 6 \$\div e2?! \$\div h6\$ again doesn't help White.

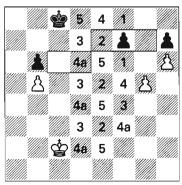
6...\$g67\$d3!\$f6

7...\$\psig5 8 \pme3! \pmeg6 9 \pmef4! \pmeqh5 10 \pmef5 +-.

8 \$d4! \$g6 9 e5! \$f5

10 exd6! \$6 11 \$e4! \$g5 12 \$e5! \$g6 13 \$f4! +-

■ Of course d6 and d7 are also key squares because of which the pairs of corresponding squares c7-e7 and c8-e8 arise. White can also use them by 1 \$\displays 22\$. The bar \$\displays 28! 3 \$\displays 24 \$\displays 55\$. It just doesn't do him any good.



12.11 +/= W.Bähr, 1934

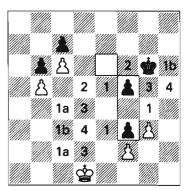
Key squares are c6, d6 and e7-g7. That leads to the pairs of corresponding squares f6=1=f8, e5=2=e7 and d5=3=d7. Behind them f5=4=e8 is the connecting square to 1,2, and e4=5=d8 makes it possible to move to 2-4. With the other squares one has to watch out for a few peculiarities. If Black has to defend on the first two ranks then the numbering can be extended (as in the diagram). However, there is a possibility of a counterattack, so Black wins with kings at d2 and d6 or e2 and e6, whoever is to move.

1 \$\psi d2! \$\psi d8\$
1...\$\psi c7 2 \$\psi e3! +--.

2 \$\preceq\$2! \$\preceq\$8 3 \$\preceq\$f3! \$\preceq\$e8 4...\$\preceq\$d6 5 \$\preceq\$d4! \$\preceq\$6 6 \$\preceq\$e4! and White wins.

5 \$\pmu d4! \$\pmu d8 6 \$\pmu e4! \$\pmu e8 7 \$\pmu f5! \$\pmu e7 8 \$\pmu e5! \$\pmu d7 9 \$\pmu f6! \$\pmu e8 10 \$\pmu g7! +--

■ The following studies are closely related to the present one: Bähr 1936: w**\$**c2,∆b4,g4,h5; b**\$**e8,∆b5,f6,h6 (*ECE* 468), Ebersz 1935: w\$b1,∆a3,g5,h6; b\$f8, △a4, f7, h7 (ECE 469), Ebersz 1935: w\$e1,∆a4,g5,h6; b\$e8,∆b6,f7,h7 (ECE 470) as well as Bähr 1934: w\$d2,∆b4, c5,g5,h6; $b \triangleq d8, \triangle b7,b5,f7,h7$ (*ECE* 609). Portisch & Sarközy take these studies in order to discuss articles by Ebersz and Barath (Magyar Sakkelet 1931, April 1954) about the role of 'geometrical opposition' in the theory of corresponding squares (p.9ff, No. 27-31). The interested reader should try to find out in which of the positions given above opposition plays a role and in which it doesn't.



12.12 (g6=1a) +/= **M.Zinar**, 1983

Key squares are f3-f5 and e6, except that \$\delta\$e6 leads to nothing if Black is already at g4. It follows e5=e3=1=g4, but one has to be aware of the fact that the position after \$\delta\$e3 \$\delta\$g4 is even lost. Further we label d5=2=f6 (protects e6 and e5=1), d4=3=g5 and d3=4=h5. Now the adjacent squares on the c-file have to be examined. Since one must bear in mind the possibility of Black playing ...\$\delta\$g4, they are labelled c4=c2=1a=g6 and c3=1b=h6. Due to the counter-attack there are no corresponding squares on the b-file and Black has several options for the squares on the first rank.

1 \$\psic 2! \$\psih 6 2 \$\psi c3! \$\psig 6 3 \$\psic c4! \$\psig 5 \$4 \$\psid d4! \$\psih 5 5 \$\psid d5!

5 **\$e**3?? **\$g**4! −+.

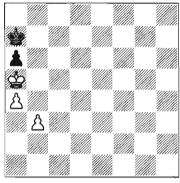
5...\$g4 6 \$e5! \$h3

6...\$g5 7 \$e6! +-.

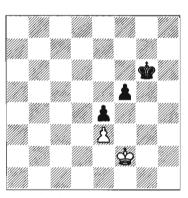
7 �f4! �g2 8 �e3! +-

Chapter 12 Exercises

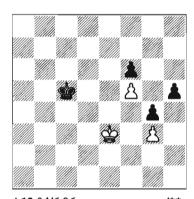
Exercises 12.01-12.04 are known to us from previous chapters. Only their key squares and corresponding squares have to be determined.



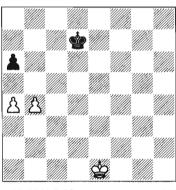
A12.03/A5.09



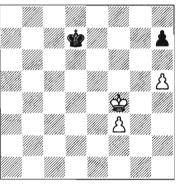
A12.01/4.09 */



A12.04/6.06

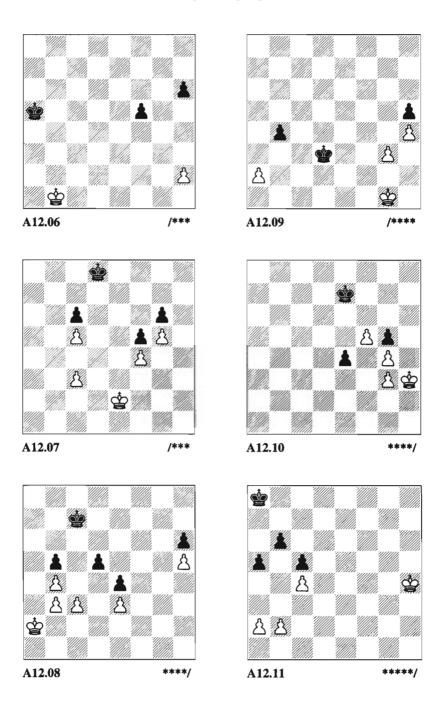


A12.02/A5.08

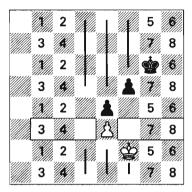


A12.05

/********

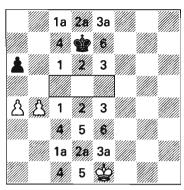


Solutions to Chapter 12 Exercises



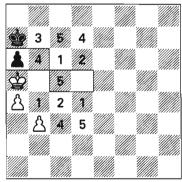
A12.01/4.09 (g6=5) =/+ J.Timman - A.Yusupov Amsterdam Donner mem 1994

Have you also drawn on the whole board? Key squares are b3-d3 and f3-h3. Shortest ways are h4-g5-f6-(e5/e6)-d5c4-b4 = h2-g1-(f1/f2)-(e1/e2)-(d1/d2)c2-b2. It follows that there are no corresponding squares on the d-, e- and f-files (it's sufficient if White stays on the same file, which we have indicated by the lines). If Black steps onto the a-file, a counter-attack against the unprotected fpawn is possible. The systems of corresponding squares on both wings reach the base line because White can't become active. But a defence on the key squares is possible. A possible continuation is 1 \$\psi_g2! \$\psi_g7 2 \$\psi_g3 \$\psi_f7!? 3 \$\psi_f2!\$ (the seemingly active 3 \(\precent{\psi} f4?\) backfires after 3...\$f6 4 \$g3 \$g5 5 \$f2 \$h4! -+) 3...\$e7 4 \$e2 \$e8 5 \$e1! \$d7 6 \$d1 \$\documenter{\psi}c7 7 \documenter{\psi}c1! (distant opposition) 7...\documenter{\psi}b8 8 \$\pi_b2! \$\pi_b7 \quad 9 \$\pi_b3 \$\pi_b6 \quad 10 \$\pi_b2! \$\pi_c5\$ 11 \$\psic 3 \$\psi d 5 12 \$\psi d 2! \$\psi d 6 13 \$\psi d 1! \$\psi c 5\$ 14 \$\displays c1! \$\displays b5 15 \$\displays b1! \$\displays a5 16 \$\displays c1 (not 16 \$\docksim a1? f4! and Black wins) 16...\$\docksim a4 17 $\mathfrak{D}_{c2!} = 0$



A12.02/A5.08 (d7=5, e1=6) +/= **W.Bähr.** 1936

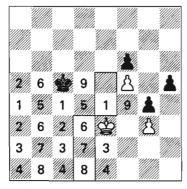
Key squares are c5, d5 and e5. We number the adjacent squares and the other squares as usual. If the white king is on the first rank, then of course one has to watch out for a counter-attack.



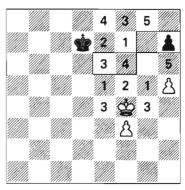
A12.03/A5.09 +/=
(a5=3 for White and 2 for Black)
After Réti and Mandler (1929) and
Grigoriev (1930)

This exercise shows how an additional possible pawn move affects the system of corresponding squares of A12.02. Here there is no key square at e5 because of the counter-attack via c5 and b4. Let's

assume that the white king is already at d4. Due to White's spare tempo Black then couldn't play ... \$\delta d6? (b4! with a transition to A12.02 would then win). Instead he would have to protect the two key squares by ... \$\precepce{c}6! (anti-opposition!) in order to move to the corresponding square d6 only after b4. It follows that d4=b4=1 correspond to c6=1, c4=2=d6and a5=3=b7 (parries the threat ... \$\dots b4 and protects a6, b6). Amongst the other squares, c3=4=d7 (anti-opposition) or b6. (\$c4 can be answered by the stalemate idea ... \arrangle a5. Thus for Black it follows a5=2.) Further d3=5=c7. Of course with some king positions (for example, w\(\delta\)c3; b\$c5 or w\$d3; b\$d7) the counter ...a5 is possible if Black is able to defend the new key squares.



Key squares are d3-d1 and e4, e5. The squares d5 and d4 are not key squares due to the stalemate idea \$\displaystyle{\psi}f4\$, and d3 of course can't be accessed at once after \$\displaystyle{\psi}f4\$. This stalemate trap is also the reason for the original pair of corresponding squares d5=9=f4. The remaining corresponding squares can be determined as in position 12.04.



A12.05 (f4=4) +/= After Z.Azmaiparashvili – L.Eolian, USSR Spartakiad 1979

Key squares are e6, f6 and g7, h7. Because White can still play the pawn move f4, Black shouldn't take the opposition as in 12.06, but has to avoid it. e5=g5=1=f7, f5=2=e7, e4=g4=3=f8, f4=4=e8 and finally h6=5=g8 are the pairs of corresponding squares.

1...**\$**e8!

2 \psif5 \psie7!

2...\$\psi\$f7? brings us to a position actually from Azmaiparashvili-Eolian, which concluded as follows: $3 \psi 94$? (3 f4 \$\psi 6\$ 4 \$\psi 6\$ 5! \$\psi 7\$ 5 \$\psi 66\$! \$\psi 6\$ 6 h6! +--) 3...\$\psi f6? (3...\$\psi f8\$ =) $4 \psi f4$?! (4 f4! +--) 4...\$\psi f7\$ (4...\$\psi 6\$ 5 \$\psi 94\$! +--) 5 \$\psi f5\$? (5 \$\psi 6\$ +--) 5...\$\psi 6\$? 96 \$\psi 6\$! 10 f4 \$\psi f7\$! 11 f5 \$\psi f6\$ $\frac{1}{2}$ -\frac{1}{2}.

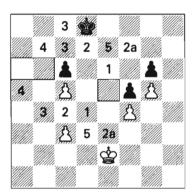
3 \$ e5 \$ f7! 4 f4 \$ e7! = (12.06)

A12.06 Instructive example

Black has to take the (distant) opposition in order to capture the corresponding squares:

- 1...\$b5! 2 \$c1
- 2 **\$**b2 **\$**b4! −+.
- 2...\$c5! 3 \$d1 \$d5! 4 \$e1 \$e5! 5

\$\psi_1 \text{h5!} 6 \psi_e1 \text{h4!} (12.06) 7 \psi_f1 \psi_d4! 8 \$\psi_e2 \psi_e4! 9 \psi_f2 \psi_d3! 10 \psi_f3 \text{h3!} -+



A12.07 =/= V.Filippov - I.Zakharevich Russian Ch (Elista) 1996

Key squares are a6, b6 and, due to the spare move c4, also e5. Thus d4=1=e6 and along the shortest way d4-c4-b4-a5=1-4=e6-d7-(c7/c8)-b7. There are also d3=5=e7 and e3=2a=f7.

1...**⇔**e8!

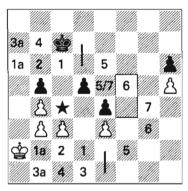
Brilliant defence! Black recognizes the system of corresponding squares.

2 \$\d2

2 \$\pm\$d3 \$\pm\$e7! 3 \$\pm\$c4 \$\pm\$d7! 4 \$\pm\$d4 \$\pm\$e6! 5 \$\pm\$c4 \$\pm\$d7! 6 \$\pm\$b4 \$\pm\$c7 7 \$\pm\$a5 \$\pm\$b7!:

- a) 8 c4 \$\preceq a7! 9 \$\preceq b4 \$\preceq b7 (9...\$\preceq a6? 10 \$\preceq c3! \$\preceq a5 11 \$\preceq d4 \$\preceq b4 12 \$\preceq c5! \$\preceq xc4 13 \$\preceq f6 +--) 10 \$\preceq c3 \$\preceq c7 11 \$\preceq d4 \$\preceq d7 12 \$\preceq c5 \$\preceq c7! =.
- b) 8 2b4 2c7 = (but not 8... 2a6? 9 2c4! 2a5 10 2d4 2b5 11 2c5 +-).
 - 2...\$d8 3 \$c2 \$d7 4 \$b3 \$c7
- 4...\$\perp 6 5 \$\perp c4 (5 \$\perp a4?! \text{ runs into a counter-attack: 5...\$\perp d5! 6 \$\perp b4! \$\perp e4! 7\$\perp a5! \$\perp xf4 8 \$\perp b6! \$\perp xg5 9 \$\perp xc6! \text{ f4 10}\$\perp d6 \text{ f3 11 c6! \text{ f2 12 c7! f1}\perp 13 c8\perp! \$\perp d3+ 14 \$\perp e5 \perp f5+ 15 \perp xf5+! \text{ gxf5! 16 c4 f4 =) 5...\$\perp d7! =.

5 \$\psi b4 \$\psi c8! \frac{1}{2} - \frac{1}{2}



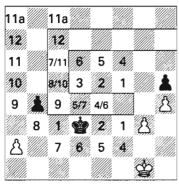
A12.08 (c7=3) +/= **M.Euwe** *Tidskrift för Schack*, 1924

Here the advance c4 plays the decisive role. Since Black has to take twice at c4. e4 isn't protected any longer which leads next to f5 to new key square f4 on the kingside. On the queenside a pawnstructure of the type 'don't touch me' arises, leading to the pair of corresponding squares c3=b5. Then the shortest ways are d2-(e1/e2)-f2-g3 = c6-(d6/d7)-(e5/e6)-f5 for Black. By this we first determine the corresponding squares on the queenside: d2=1=c6. Connecting square to 1 and c3 or b5 is c2=2=b6. Further. d1=3=c7 and c1=4=b7 both have the same distance to the shortest way, b1 and b2 don't bring anything new and in addition to c7 and c6 are also corresponding squares to a7 and a6. On the kingside we have f2=5=(e5/e6) plus g3=6=f5 and g4=7=e5.

1 \$\phi b1! \$\phi b7 2 \$\phi c1! \$\phi c7 3 \$\phi d1! \$\phi d6\$
4 \$\phi c2! \$\phi c6 5 \$\phi d2! \$\phi b6\$

5...\$\d6 6 c4! dxc4 7 bxc4! bxc4 8 \$\deccap\$c3! \$\deccap\$d5 9 b5! \$\deccap\$c5 10 b6! is winning for White.

6 \$\psi 2 \$\psi 6 7 \$\psi 12! \$\psi 6 8 \$\psi 33! \$\psi 5 9\$\$ \$\psi 94! \$\psi 6 10 \$\psi 14! \$\psi 6 11 \$\cdot 4! \$\dx 6 12 \$\dx 6 12 \$\dx 6 13 \$\dx 6 14 \$\



A12.09 (d3=3) /= **R.Réti**, 1929

Black shouldn't be afraid of an exchange at g4 as long as his king is close enough. If White then uses the h-pawn as a deflecting force, the black king, after capturing the pawn, gets back just in time to the safe square c8. But he has to stay in the square of the h4-pawn to prevent a breakthrough. We conclude that White can only win if he captures the b-pawn first. Thus he has to advance to the key squares c4-f4. The b-pawn covers the c3-square, so the numbering along the key squares only takes place on three files. f3-d3=1-3=f5-d5 and, moving further back, f2-d2=4-6=f6-d6 (the squares on the white baseline aren't corresponding squares because White can't approach from them). If these were all the corresponding squares, Black would lose because he couldn't get back to his system in time. However, one also has to be aware of the possible counter-attack against the a-pawn. Right now Black is short of exactly one tempo. He can queen the b-pawn in six moves, but White on the other hand queens in five moves with check on g8, while ...hxg4 costs another tempo. But this tempo could be saved if the white king were at f3. Therefore Black can also defend himself on the key

squares. d4 gets the 5 and e4 the 6. Further e4 is a corresponding square to f2 and thus gets another 4 and d4 is a corresponding square to c2 and thus gets a 7 like c2. We would like to emphasize that these corresponding squares only exist because of the counter-attack. The control of f4 by the g-pawn would normally exclude a defence on the key squares. Moreover, White can penetrate the black position via b3, which explains the remaining corresponding squares.

1...**\$**d4!!

1...\$c3? 2 g4! \$\displayb2 3 g5! +-.

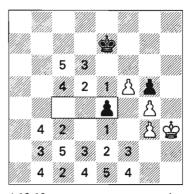
After 1...\$\delta e4? 2 \delta f2! \delta d4 the black king is too far away from the h-pawn: 3 g4! hxg4 4 \delta g3! \delta e5 5 \delta xg4! \delta f6 6 \delta f4 +-.

2 \place{12}

2...\$e4! 3 \$e2 \$d4! 4 \$f3

4 \$\psi d2 \$\psi e4! 5 \$\psi c2 \$\psi d4! 6 \$\psi b3 \$\psi c5! 7 \$\psi a4 \$\psi c4! 8 \$\psi a5 \$\psi c5! 9 \$\psi a6 \$\psi c6! 10 \$\psi a7 \$\psi c7! =.

4...\$\psi_c3! 5 g4 hxg4+! 6 \psi_xg4 \psi_b2! 7 h5 \psi_xa2! =



A12.10 +/=
V.Halberstadt
L'Echequier de Paris, 1954

Both kings can only manoeuvre within the square of the opponent's passed pawn. Furthermore Black has to watch out for a sacrifice of the f-pawn that would be favourable for White. Obvious key squares are d4 and e4. The concluding pairs of corresponding squares are e3=1=e5 (d5 isn't sufficient because of f6) and c3=2=d5 with the connecting square d2=3=d6. It follows at once e2=2. Next, one would like to number the c2square but to do that one would have to calculate many variations because with c5, c6 and e5 there are three possible corresponding squares for Black. Therefore it is better to deal with the squares on the b-file since Black isn't allowed to step on them. Let's therefore assume the white king is at c3 and the black king is at d5. After \$\text{\$\psi}\$b4 Black could a priori think about ... \(\disp\)d6 or the counter-attack ... \(\disp\)d4. thus against b3=4 there only remains c5 because ... \$\d6 fails to \$\delta b4 and ... \$\delta e5 or ... \(\preceq c6\) to \(\preceq c4\). From this it also follows c2=5=c6, after which all numbers are assigned. Now we can finally assign the other squares with familiar numbers. One can conclude from the picture that now exists that if Black is to move, he draws by 1...\$\psi\$d6 or 1...\$\psi\$d7, while if it is White's move, he wins as follows:

1 \$\pmg2! \$\pm d7 2 \$\pm f1!

2 \$\psi f2? \$\psi d6! 3 \$\psi e2 \$\psi d5! 4 \$\psi d2 \$\psi d6! 5 \$\psi c2 \$\psi c6! 6 \$\psi b3 \$\psi c5! 7 \$\psi c3 \$\psi d5! 8 \$\psi b4 \$\psi d4! (Black's defence is based on this counter-attack and thus also the system of corresponding squares) 9 \$\psi b3 \$\psi c5!? =.

2...\$c6 3 \$e1! \$c5 4 \$d1! \$c6

4...\$\psi 5 \$\phi e2! \$\phi e5 6 \$\phi e3! \$\phi d5 7 f6!\$\$\$\$ \$\phi xe4! \$\phi xf6 9 \$\phi d5! +-.\$\$

5 \psic2! \psic5

5...\$\psi 6 \psi d2! \$\psi d5 7 \psi c3! (7 f6? \$\psi e6! 8 \psi e3 \psi xf6! 9 \psi xe4 \psi e6! =) 7...\$\psi c5 8 f6! +-.

6 \$b3! \$d6 7 \$b4!

7 \$\cdot c4?! \$\cdot e5\$ doesn't help White. From that one can see that there is something special about the key square c4, because now White has to try again by 8 \$\cdot b3!.

7... 全d5 8 全c3! 全c5

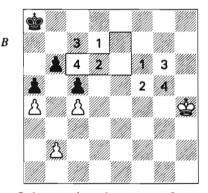
8...**\$**e5 9 **\$**c4! +−.

9 f6! \$\pside d6 10 \$\pside d4! \$\psie e6 11 \$\psix xe4! \$\psix xf6 12 \$\pside d5! +-\$

A12.11 N.Grigoriev, Shakhmaty v SSSR, 1938

You have no doubt realized that the starting position doesn't as yet have much to do with corresponding squares. Black just threatens ... a4 with equality. White can only prevent that by playing a4 himself.

1 a4! (D)



Only now does the system of corresponding squares become interesting. White's spare tempo makes the determination of the key squares more difficult. They are e6 and e7. Due to the spare tempo the adjacent corresponding squares have to be at a knight's distance (antiopposition). Thus pairs are f6=1=d7, f5=2=d6, g6=3=c7 and g5=4=c6. Due to Black's possible counter-attack against c4 there are no corresponding squares on the h-file and the eighth rank. One also has to consider that Black at once gets an

equal position if he gets the vertical opposition on the seventh or sixth rank.

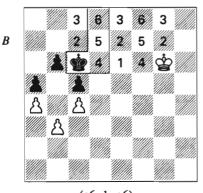
1...**⇔**b7

1...\$b8 2 \$g5 \$c8 3 \$f5! (3 \$f4? \$d7! =) 3...\$d7 4 \$f6! \$d6 5 \$b3! +-.

2 \$h5!!

2 \$\psi_5? \$\psi_6! 3 \$\psi_5\$ \$\psi_6! 4 \$\psi_6\$ \$\psi_6! 7 \$\psi_6 \$\psi_6! 6 \$\psi_6! 7 \$\psi_6 \$\psi_6! 6 \$\psi_6! 7 \$\psi_6 \$\psi_6! 6 \$\

- 2...\cdot\c7
- 2...\$c6 3 \$g5! +-.
- 3 \pmg6! \pmc6 4 b3! (D)
- 4 \prescript{g}7? \prescript{d}6! =.



(c6=1=g6)

Now that White has used up his tempo move, the corresponding squares change considerably. The change is not solely in Black's favour, though, as by ruling out the counterattack against c4, White gains access to squares on the 8th rank. Naturally, White chose a moment to play b3 when the two kings were on corresponding squares in the new system. Now Black cannot prevent White penetrating with his king and winning the b6-pawn.

- 4...\$c7 5 \$\pmg7! \$\pmc6 6 \$\pmg48! \$\pmd7 7\$\$
 \$\pmc9f7! \$\pmd6 8 \$\pmc8e8! \$\pmc5\$\$
- 8...\$\psic 7 9 \psic 67! \psic 6 10 \psid 8! \psid 6 11 \psic 6 12 \psic 6 12
- 9 \$\psi d7 \$\psi d4 10 \$\psi c6 \$\psi c3 11 \$\psi xb6!\$ \$\psi xb3 12 \$\psi b5! +-
- Related to this study there is a fascinating story which we would like to repeat in brief, following the illustration by Averbakh: "Nikolai Grigoriev died on 10th October 1938. The present study was published in the October edition of the periodical Shakhmaty v SSSR of the same year. Its solution only appeared after the death of the author, in 1939, and in the following version: 1 a4 \pmb b7 2 \pmb g5 ...". Only in 1985 (thus 47 years after Grigoriev's death!!) was the above correct solution published in Shakhmaty v SSSR. ECE still says that the position is drawn and the study therefore incorrect. For a pawn ending that looks so easy it is quite unbelievable, don't you think?

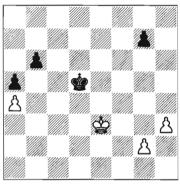
13 Thinking Methods to Find the Right Move

In the first 12 chapters we have dealt with the basic ideas and techniques in pawn endings. In this chapter a few thinking methods and fighting methods will be presented. Of course the following reflections do not only make sense in pawn endings. With enough time many pawn endings can be calculated more or less to the end. Now that adjourned games have been virtually abolished, one usually faces a pawn ending with a restricted amount of time. This time must be used in a sensible way. First one should decide how to proceed. Usually it makes sense to make a list of candidates and to include at first all moves that seem to make any sense.

A) Method of Exclusion

But there are also positions in which one can play intuitively according to the motto "if this move doesn't win, the position just isn't won" (positive method of exclusion). We have first chosen such an example (see next diagram). [With the following diagrams, imagine that you have only 2 minutes left to the time-control. What is your 40th move?]

Black threatens to create an outside passed pawn on the queenside by ...b6-b5 and thereby to dissolve his weakness. If White doesn't act in a dynamic way he can't win anyway. Therefore Shirov played 1 h4! (not 1 \$\display\$ d3? \$\display\$ c5 2 h4 b5! 3 axb5! \$\display\$ xb5! 4 h5 \$\display\$ c5 5 g4 \$\display\$ d5 6 g5 \$\display\$ e5 =) and Adams resigned. The key continuation:



13.01 + A.Shirov - M.Adams Las Palmas 1994

1...**⇔**e5

1...\$c4 2 h5! b5 3 axb5! \$xb5 4 g4! a4 5 \$d2 \$c4 6 g5! +-; 1...b5 2 axb5! \$c5 3 h5 a4 4 \$d2 \$xb5 5 g4! +-.

2 \$d3

2 g4? \$\psi 5! (2...g6? 3 h5 gxh5 4 gxh5! \$\psi 5 5 \psi d4 \psi g5 6 \psi c4 \psi xh5 7 \psi b5! +-) 3 \psi d3 (3 h5 \psi e5! 4 \psi f3?! b5! 5 axb5! a4! 6 b6 \psi d6! =) 3...\psi e5! 4 \psi c4 \psi c4 \psi c4 \psi c5! 4 \psi c5!

2 h5 +-.

2...\$f4

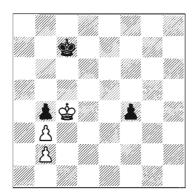
2...**\$**d5 3 h5 +−.

3 \$c4 \$g3 4 \$b5 \$xg2

4...\$\psixh4 5 \$\psixb6! \$\psig3 6 \$\psixa5! and White wins.

5 \$xb6 \$g3 6 h5! \$g4 7 \$xa5! \$xh5 8 \$b4 g5 9 a5! g4 10 a6! g3 11 a7! g2 12 a8\$! g1\$ 13 \$\text{\$\}\$}\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\t

The second example shows a negative method of exclusion:



13.02 = M.Brodsky - S.Sivokho
St Petersburg 1993

Since the white king can't leave the square of the f-pawn, the only choice is between 1 \$\pm\$44 and 1 \$\pm\$43. After 1 \$\pm\$44 \$\pm\$46 2 \$\pm\$e4 \$\pm\$c5 3 \$\pm\$xf4 \$\pm\$d4 White is in zugzwang and loses. There remains only:

1 **\$**d3!

1 \$\psid4? \$\psid6! 2 \$\psie4 \$\psic5! 3 \$\psixf4 \$\psid4! 4 \$\psif5 \$\psid3! 5 \$\psie5 \$\psic2! 6 \$\psid4 \$\psixb2! 7 \$\psic6 \$\psid4 \$\psixb2! 7 \$\psic6 \$\psid4 \$\psixb2! 7 \$\psic6 \$\psid4 \$\psixb2! 7 \$\psic6 \$\psid6 \$\psid6 \$\psid6 \$\psic6 \$\psid6 \$\psid6 \$\psic6 \$\psid6 \$\psid6 \$\psic6 \$\psic6 \$\psid6 \$\psid6 \$\psic6 \$\psic6 \$\psid6 \$\psic6 \$\psic6 \$\psic6 \$\psid6 \$\psic6 \$\p

1...**\$**b6

An analogous way of thinking now determines...

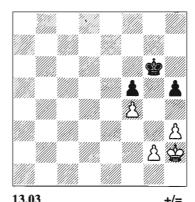
2 &d4!

...as the only remaining move. $\frac{1}{2}$ - $\frac{1}{2}$

Black is unable to make any progress: 2...\$\perpcox c6 3 \perpcox c4! \perpcox d7 4 \perpcox d3! \perpcox d6 5 \perpcox d4!\$\$\perpcox c6 9 \perpcox c4! \quad f3! 7 \perpcox cf3 \perpcox d5 8 \perpcox c6 9 \quad f4?? \perpcox d4! -+) 8...\$\perpcox c5! =.

B) The Opponent's Possibilities

Here we distinguish between two basically different cases. If we notice that the opponent has an obvious plan or a direct threat we of course have to avoid these possibilities. Looking for the opponent's options might also lead to the conclusion that he hardly has any good moves. This might open up the opportunity to get him in zugzwang. Let's start with the first case:



E.Geller – R.Kholmov USSR Ch (Leningrad) 1963

It was actually Black's move in the game, but we shall first consider what would happen with White to play. Black threatens to close the kingside with ...h4. A later exchange with g3 would only lead to a draw. How can we render this threat innocuous?

1 g3!

Other moves fail: 1 \$\preceq g3? \$\preceq f6 2 \$\preceq h4\$ (2 \$\preceq f3 \ h4! =) 2...\$\preceq g6! 3 g3 \$\preceq h6! =; 1 \$\preceq g1? h4! =; 1 h4? \$\preceq f6 2 \$\preceq g3 \$\preceq e6 3 \$\preceq f3\$ \$\preceq d5 4 \$\preceq e3 \$\preceq c4 =.

1...\$f6 2 \$g2 \$e7 3 \$f2 \$d6 4 \$e2

The decisive tempo move! Because of the reserve tempo h3-h4, c4 and d4 are key squares. Taking into account the threat g4, the shortest routes are c5-d5-e6 and d3-e3-f3, giving rise to the correspondences c5-d3, d5-e3 and e6-f3. Further back, the squares e2 and f2 both

correspond to d6, so White has a spare square on the second rank.

4...\$d5 5 \$e3! \$c5

Black covers the key square d4, but he moves too far away from the kingside, so that the advance g4 wins. 5...\$\div e6 6 \div d4!\$\div d6 7 h4! +-.

6 \$\psi f3! \$\psi d5 7 g4! hxg4+ 8 hxg4! fxg4+

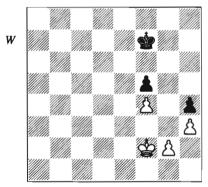
8...**\$**e6 9 g5! +--.

9 \$\preceq\$xg4! \$\tilde{\phi}e6 10 \$\preceq\$g5! \$\preceq\$f7 11 \$\preceq\$f5! and wins.

In the game, Kholmov resolved the situation on the kingside, so as to gain the opposition without any trouble:

ି 1...h4! 2 할g1 할f7 3 할f1 할f6 4 할f2 할f7! (D)

4...\$\perpensecond{\perpensecond}\perpensecond{\perpensecond}\perpensecond\perpense



5 \$e3 \$e6

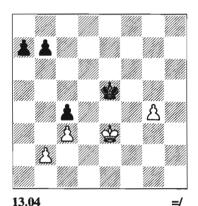
On the kingside it is sufficient for Black to occupy the same file (because of his control of e4). In the battle on the cand d-files for the key squares c5, d5 and e5, it is necessary to maintain the opposition.

6 \$e2 \$e7! 7 \$d1 \$d7!

8 \$d2 \$d6 9 \$e2 \$e7 10 \$d3 \$d7!

In 1898, Neustadtl (ECE 1204) created the position w\$\psi_4\text{\Delta}f5,g4,h4; b\$\psi_d6,\text{\Delta}f6, h6 in which there is in addition to the win shown above a possible win by moving to the queenside: 1 \$\psi_d4 \$\psi_c6 2 \$\psi_c4 \$\psi_d6 3 \$\psi_b5 +-.\$

Now we proceed to the second case:



R.Fischer – A.Bisguier USA Ch (New York) 1959/60

If Black moves his king, then White's king can advance, so Black has to move his pawns forward, but this makes them more vulnerable. Fischer decided on a wait-and-see strategy:

1 \place{1}{2} f3!?

1 g5?! \$\psi f5! 2 \$\psi d4 \$\psi xg5! 3 \$\psi xc4 \$\psi f6 =.

1...a5!

1...b5? 2 \$\pmese2\$! a6 3 g5! \$\pmese5\$ 4 \$\pmese44!\$
\$\pmese2\$ \$\pmese5\$ 5 \$\pmese5\$! \dots; 1...\$\pmese5\$? 2 \$\pmese5\$ 4 \$\pmese2\$ 4 \$\pmese5\$! \$\pmese5\$ 5 \$\pmese5\$ 2 \$\pmese5\$! \$\pmese5\$ 5 4 \$\pmese5\$ 6 \$\pmese5\$ 5 7 \$\pmese5\$ 5 2 \$\pmese5\$! \$\pmese5\$ 6 \$\pmese5\$ 6

2 \precede e3!?

2 g5 \psif5 3 \psie3 \psixg5 4 \psid4 \psif4 5 \psixc4 \psie3 6 \psib5 \psid3 7 \psixa5 \psic2! =.

2 94

Bisguier defends ingeniously. By moving his a-pawn forward, he makes it very difficult for White's king to capture the pawns. At the same time he prepares a break with ...b5-b4, so the white king is confined to the zone a5-f5-f1. Not 2...b5?, in view of 3 g5! b4 4 g6! bxc3 5 bxc3! \$\pi f6 6 \pi d4! +-.

3 g5

For a long time we thought that White could win with 3 \$\psigma f3!?; for example, 3...b6? 4 \$\psi e3!\$ b5 5 g5 b4 6 cxb4! c3 7 \$\psi d3!\$ cxb2 8 \$\psi c2!\$ +- or 3...b5? 4 \$\psi e3\$ (4 g5?? b4! 5 cxb4 c3! 6 bxc3 a3! -+) 4...b4 5 cxb4! c3 6 \$\psi d3!\$ cxb2 7 \$\psi c2!\$ a3 8 g5 +-. However, Hiarcs 7.32 using the endgame tablebase \$\psi + 2\Delta v \$\psi + \Delta\$ discovered 3...\$\psi f6!!\$ 4 \$\psi f4\$ \$\psi g6!\$ 5 g5 \$\psi g7\$ 6 \$\psi f5\$ \$\psi f7!\$ 7 \$\psi e5\$ \$\psi g6!\$ 8 \$\psi d5\$ \$\psi xg5!\$ = (see the game).

3...\$f5! 4 \$d4

4 g6 \$\text{\psi}xg6! 5 \$\text{\psi}d4 \$\text{\psi}f5 6 \$\text{\psi}xc4 \$\text{\psi}e47\$\$
\$\text{\psi}b5 \$\text{\psi}d3 8 \$\text{\psi}xa4 \$\text{\psi}c4!? 9 \$\text{\psi}a3 b5! 10 \$\text{\psi}a2 b4! =.

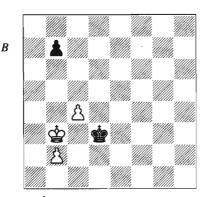
4...\$xg5! 5 \$xc4 \$f4! 6 \$b4 \$e3! 7 \$xa4 \$d2! 8 \$b3 \$d3

8...\$c1 =; 8...\$d1? 9 \$c4! \$c2 10 b4

9 c4 \$\psi d2! 10 \$\psi a4 \$\psi c2! 11 \$\psi a3\$

11 b4 \$\preceq\$c3 12 c5 \$\preceq\$d4! 13 \$\preceq\$b3 \$\preceq\$d5! 14 \$\preceq\$c3 b6! =; 11 b3 \$\preceq\$d3 12 \$\preceq\$b4 \$\preceq\$d4! 13 c5 \$\preceq\$d3! 14 \$\preceq\$a5 \$\preceq\$c3! 15 \$\preceq\$a4 \$\preceq\$d3!

11...\$d3 12 \$b3 (D)



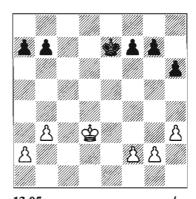
12...\$d2!!

The game instead finished 12...b6? 13 \$\psib4! \Psic2 14 \Psia3! \Psid3 15 \Psib3 \Psid2 16 \$\psia4 \Psic2 17 b4 1-0.

13 c5 \$\psid3! 14 \$\psib4 \$\psic 2 15 \$\psib5\$ \$\psid3! 16 \$\psia5 \$\psid4! 17 \$\psib6 \$\psic 4! 18 \$\psib 4! =

C) Fighting Methods

In this respect many pawn endings don't offer much, especially when the pawn-structure isn't fixed, but even here there is still something one can do:



13.05 =/= V.Jansa - E.Prandstetter Czechoslovak Ch (Prague) 1986

Though in this nearly symmetrical position White is a little bit better due to his advantage in space, a path to victory can't be detected. We have already seen that first the king should advance as far as possible, so the first move is quite obvious:

1 **☆**d4

Black plays according to the same motto:

1...**\$**d6

However, it's not so easy now to find a promising plan for making progress. The list of candidates is long (nearly every pawn move can be considered) but which one bothers the opponent most? Jansa makes a good choice with the h-pawn. Perhaps he might threaten h5 himself and if Black plays ...h5, he can add some spice by f3 and g4.

2 h4!?

Black also has a great choice, but he decides to prevent the constant menace of h4-h5.

2...h5

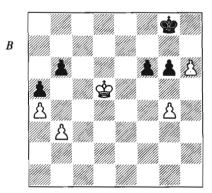
- 2...g6 3 g4 b6 4 a4 h5 5 gxh5 gxh5! 6 b4. Now it's a difficult situation for Black, which he solves best by clearing up the position on the queenside immediately:
- a) 6...a6? 7 \$\phie4! \$\phie6 8 \$\phif4 f6!? (8...\$\phid5 9 \$\phig5! +-; 8...\$\phif6 9 b5 a5 10 f3! +-) 9 \$\phie4! b5 10 axb5! axb5 11 f3! \$\phid6 12 \$\phif5! \$\phid5 13 \$\phig6!! (13 \$\phixxf6? \$\phic4! 14 f4 \$\phixb4! 15 f5 \$\phic3! 16 \$\phie5 b4! 17 f6 b3! 18 f7 b2! 19 f8\$\pm b1\$\pm! 20 \$\pmic5+ \$\phid3! 21 \$\pmid4+ \$\phie2! 22 \$\pmie4+\$\pmixe4+! 23 \$\phixe4! \$\phid2! =) 13...\$\phic4 14 \$\phixh5! \$\phixb4 15 \$\phig4! +-. This queen ending with the f-pawn is won for White.
- b) 6...f5?! 7 a5 (7 f4 a6 =; 7 f3 a6 8 a5 bxa5 9 bxa5! \$\$¢c6! =) and now:
- b1) 7...\$\perpenset\$e6? 8 axb6 axb6 9 \$\perpenset\$c4!\$\perpenset\$e5 (9...\$\perpenset\$d6 10 \$\perpenset\$b5!\$\perpenset\$c7 11 \$\perpenset\$a6!\$\perpenset\$c6 12 b5+\$\perpenset\$c5 13 f4! +-) 10 \$\perpenset\$b5!\$\perpenset\$c6!\$\perpenset\$c6!\$\perpenset\$c5!\$f4 14 b6!\$f3 15 b7!\$\perpenset\$p2 16 b8\$\perpenset\$!\$f2 17 \$\perpenset\$g8+\$\perpenset\$c6!\$f3 15 \$\perpenset\$c7 \$\perpenset\$g2 16 b8\$\perpenset\$!\$f2 17 \$\perpenset\$g8+\$\perpenset\$c6!\$f3 15 b7!\$\perpenset\$c6!\$g2 19 \$\perpenset\$c6!\$f1\$\perpenset\$c6!\$g2 19 \$\perpenset\$c6!\$g3.
- b2) 7...bxa5 8 bxa5! \$\timescope c6! 9 \$\timescope 5\times 5\times 10 \$\times x65 \$\times xa5! =. Now White has to go through with his f-pawn, but he has no real winning chances in the queen ending with a rook's pawn.
- c) 6...a5 7 bxa5 (7 b5 f5 8 f3 \$\pie6 =) 7...bxa5! 8 f3 f6 9 \$\pie4 \pie5! = (and not 9...\$\pie6? 10 \$\pif4! \pied6 11 \$\pif5! \pie5 12 \$\pieg6!! {again it's important to keep the f-pawn because otherwise the resulting queen ending couldn't be won} 12...\$\pie64 13 \$\pixh5! \$\pixa4 14 \$\pie6! \$\pieb3 15 h5! a4

16 h6! a3 17 h7! a2 18 h8\(\mathbb{W}\)! a1\(\mathbb{W}\) 19 \(\mathbb{W}\)xf6 +-).

3 f3!? b6 4 g4 g6

After 4...hxg4?! 5 fxg4! White has an outside candidate on the h-file, which secures his advantage. In the following play Black has to defend himself very accurately in order to survive: 5...\$\delta\$e6 6 \$\delta\$e4 a6 7 a3. Now:

- a) 7...a5?:
- a1) 8 a4? fixes the structure in such a way that Black can hold the balance: 8...f6!. Then:
- a11) 9 h5 \$\preceq\$e7! 10 \$\preceq\$f5 \$\preceq\$f7! 11 g5 fxg5! 12 \$\preceq\$xg5! \$\preceq\$e7 13 \$\preceq\$f5 \$\preceq\$f7!? (13...\$\preceq\$f8?! 14 \$\preceq\$e6 \$\preceq\$g8! 15 \$\preceq\$d6 \$\preceq\$h7! =) 14 \$\preceq\$e5 \$\preceq\$e7 =.
- a12) 9 \$\psif4!? \$\psif7! (9...g6? 10 \$\psie4!)\$ \$\psid6 11 \text{ h5! f5+ 12 \$\psif4 +-) 10 \$\psif5 g6+!}\$ (10...\$\psie7? 11 \$\psig6 \$\psif8 12 \text{ h5 \$\psig8 13 h6! gxh6 14 \$\psixf6! \$\psih7 15 \$\psif7! +-) 11 \$\psie4 \$\psie6! 12 \text{ h5 \$\psif57!:}\$
- a121) 13 hxg6+ \$\preceq\$xg6! 14 \$\preceq\$d5 \$\preceq\$g5 15 \$\preceq\$e6! \$\preceq\$g6! 16 \$\preceq\$e7 \$\preceq\$g5 17 \$\preceq\$f7 f5! 18 gxf5! \$\preceq\$xf5! =.
- a122) 13 h6 \$\preceq\$8 14 \$\preceq\$d5! (14 \$\preceq\$f4? \$\precep\$h8! 15 g5 fxg5+! 16 \$\precep\$g4 \$\precep\$g8! -+) and now (D):

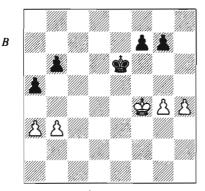


14...\$\psi\$h8!? (14...\$\psi\$f7 15 \$\psi\$c6 \$\psi\$g8! 16 \$\psi\$xb6 f5! 17 gxf5 gxf5! 18 \$\psi\$c5 \$\psi\$h7! 19 b4 f4! 20 bxa5 f3! =) 15 \$\psi\$d6 (15 \$\psi\$c6? \$\psi\$h7! 16 \$\psi\$xf6 \$\psi\$xh6! -+ is reciprocal

zugzwang with White to move; 15 \$\pm\$c6 \$\pm\$h7! 16 \$\pm\$xb6! f5! 17 gxf5! gxf5! 18 \$\pm\$c5 f4 19 \$\pm\$d4 \$\pm\$xh6! 20 \$\pm\$d3 \$\pm\$g5 21 b4! =) 15...\$\pm\$g8! =.

a123) 13 \$\dd\$ \$\dd\$f8 (13...\$\dd\$g7? 14 \$\dd\$e6! +-) 14 hxg6 \$\dd\$g7! 15 \$\dd\$c6 (15 \$\dd\$d6 \$\dd\$xg6 16 \$\dd\$e6 \$\dd\$g5 17 \$\dd\$f7 f5! is a draw) 15...\$\dd\$xg6! 16 \$\dd\$xb6 \$\dd\$g5! 17 \$\dd\$xa5 \$\dd\$xyg4! and the resulting queen ending is a theoretical draw.

a2) 8 \$\dispfa! (D):



a21) 8...f6 9 \(\preceq e4! \) g6 10 a4 +-.

a22) 8...b5 9 h5 f6 10 \$\text{\cong}\$e4! b4 (10...a4 11 b4! +-) 11 axb4! axb4 12 \$\text{\cong}\$d4! \$\text{\cong}\$d6 (12...f5 13 g5! +-) 13 \$\text{\cong}\$c4! \$\text{\cong}\$e5 14 \$\text{\cong}\$xb4! \$\text{\cong}\$f4 15 \$\text{\cong}\$c4 \$\text{\cong}\$xg4 16 b4 f5 17 \$\text{\cong}\$d3! (17 b5? f4! 18 b6 f3! 19 \$\text{\cong}\$d3 \$\text{\cong}\$h3! 20 \$\text{\cong}\$e3 \$\text{\cong}\$g2! =) 17...f4 18 \$\text{\cong}\$e2! +-.

a23) 8...\$d5 9 \$f5 +-.

a24) 8...\$\dot\feqrif 6 9 h5:

a241) 9...b5 10 g5+ \$\disperset{\phi} 6 11 \$\disperset{\phi} 64!? 12 axb4! (12 a4? g6 13 h6 f5+! only draws) 12...axb4:

a2411) 13 \$\pm\$d4? \$\pm\$f5! 14 h6! \$\pm\$g6! (14...gxh6? 15 gxh6! \$\pm\$g6 16 \$\pm\$e5! +-) 15 \$\pm\$e5 \$\pm\$h7! 16 \$\pm\$f5 \$\pm\$g8 =.

a2412) 13 \$\frac{1}{2}\$f4 f6 14 g6! +--.

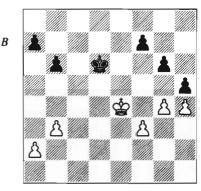
a242) 9...\$\perp 6 10 g5 f6 11 g6! \$\perp 7 12\$\$ \perp f5 b5 13 b4 a4 14 \$\perp g4 \$\perp f8 15 \$\perp f4 \$\perp e8\$\$ 16 \$\perp e4 \$\perp f8 17 \$\perp d5 \$\perp e7 18 \$\perp c5 +-.\$\$

b) 7...b5 8 b4 (8 \$\psif4 \$\psif6! 9 \text{ h5 \$\psie6!} 10 \text{ g5 f6! 11 g6 \$\psie7! =) 8...f6! 9 \$\psif4:

b1) 9...g6?! 10 \$\psi 4\$ \$\psi f?! (10...\$\psi 6?) \\
11 \$\psi d5! \$\psi f? 12 \$\psi d6! \$\psi f8 13 \$\psi e6! \$\psi g? \\
14 \$\h5! +-) 11 \$\psi d5 \$\psi e7! 12 \$\psi c6!? (12 \\
h5 \$\psi f? 13 \$\psi d6 \$\psi g8 14 \\
hxg6 \$\psi g?! 15 \\
psi e7 \$\psi xg6! 16 \$\psi f8 \$\psi h6!! =) 12...\$\psi e6! \\
13 \$\h5 \$\psi f?! 14 \$\psi b6 \\
px c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 17 \$\psi d4 \$\psi g5! 18 \$\psi e5! f4! \\
\psi c5! \$\psi f6! 16! \$\psi f6! f4! \$\psi f6! f4!

b2) 9...\$\psif7 10 \$\psif5 g6+! 11 \$\psie4\$ \$\psie6! 12 h5 \$\psif7! 13 \$\psid5 \$\psig8 14 hxg6\$ \$\psig7! 15 \$\psic6 \$\psixxg6! 16 \$\psib6 \$\psig5! =.

5 **e**4 (D)



Jansa forces his opponent to play accurately:

5...**\$**e6!

5...hxg4? 6 fxg4! \$\preceq\$e6 7 h5 \$\preceq\$f6 8 \$\preceq\$f4! gxh5 (8...\$\preceq\$g7 9 \$\preceq\$e5! +--) 9 gxh5! \$\preceq\$g7 10 \$\preceq\$g5 +--.

6 b4 b5 7 \$f4 \$f6!

7...f6? 8 gxh5! gxh5 9 \$\ddot e4! f5+ 10 \$\ddot d4! \$\ddot d6 11 f4! a6 12 a3! +-.

8 g5+ \$\precede{\prec

15...h4?! 16 f5+ \$\pi\$h7 17 f6 h3! 18 f7 h2! 19 f8\$\pi\$ h1\$\pi\$! 20 \$\pi\$f5+ \pi\$.

16 **⇔**e7

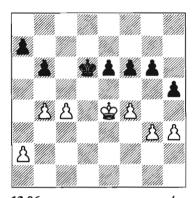
16 \$f5 \$h6! 17 \$e6 =.

16...\$g6 17 \$e6! \$g7 1/2-1/2

Even though the game ended with the expected draw, Vlastimil Jansa nevertheless forced his opponent to find a couple of very accurate moves. This is what you

should also try in better positions (of course with calculated risks).

In the next game the manoeuvres were even crowned by success:



13.06 = E.Lobron - N.Sehner Bundesliga 1984/5

Though White is a little bit better, his advantage shouldn't lead to a win by normal means. Therefore one should, as in the previous example, try to make the opponent's task as difficult as possible. To start with, Lobron just improves his position:

1 \$\d4 a5 2 a3 \$\d2 c6 3 g4

- 3 bxa5?! would have made Black's task easier: 3...bxa5! 4 a4 \$\display\$ d6 5 g4 hxg4 6 hxg4 g5 7 fxg5 fxg5 8 \$\display\$ e4 \$\display\$ c5 9 \$\display\$ e5! \$\displax\$ xc4. Now:
- a) 10 \$\psi 6? \$\psi 4! 11 \$\psi xg5 (11 \$\psi xe6 \$\psi e4! -+) 11...e5! -+.
- b) 10 \$\preceq\$xe6! \$\preceq\$b4 11 \$\preceq\$f5 \$\preceq\$xa4 12 \$\preceq\$xg5! =.

3...hxg4 4 hxg4 \$\preceq\$d6 5 g5 fxg5 6 fxg5 a4!?

Black should in no case exchange the a-pawns. If now White creates a passed c-pawn in order to eat up the kingside, the a-pawn will secure sufficient counterplay. However, if Black had exchanged the a-pawns he would, after a later c5, have had to live with an outside passed pawn or, as bad, with a protected white passed pawn.

6...e5+ 7 \$\dispersection e4! (7...\dispersection e6? 8 bxa5 bxa5 9 c5! a4 10 c6! \$\dispersection d6 11 c7! \$\dispersection xc7 12 \$\dispersection xc5! +-) and then:

- a) 8 b5?! \$\psie6 (8...\$\psic5 9 \psixe5 \psixc4 \\ 10 \psif6 \psib3! =) 9 \psie3 =.
- b) 8 \$\dispersecond{\text{c}}\)e3 is very similar to the game continuation.

7 \$e4 e5!

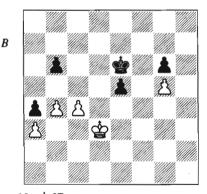
Not 7...\$\psi d7? 8 \$\psi e5! \$\psi e7 9 b5 \$\psi d7\$ 10 \$\psi f6! +--.

Black has found the only move and now White can't make any progress. Thus Lobron tries to provoke mistakes with the help of the following king moves:

8 \place{13}

8 c5+ doesn't run away: 8...bxc5! 9 bxc5+! \$\preceptrice{\preceptrice}\$xc5 10 \$\preceptrice{\preceptrice}\$xe5! \$\preceptrice{\preceptrice}\$c4! =.

8...\$d7 9 \$e2 \$e6 10 \$d3 (D)



10...\$d7 Or 10...**\$**f5:

- a) 11 c5 bxc5 12 bxc5! e4+! 13 全e3 (13 全d4 全f4! 14 c6 e3! 15 全d3 全f3! 16 c7 e2! 17 c8豐 e1豐! =) 13...全e5! 14 c6 全d6! 15 全xe4 全xc6! 16 全e5 全c5! 17 全f6 全c4! =.
 - b) 11 \$\psi_{e3}\$ \$\psi_{e6}\$ 12 \$\psi_{e4}\$ \$\psi_{d6}\$! =.
 11 \$\psi_{e3}\$ \$\psi_{d6}\$ 12 \$\psi_{e2}\$ \$\psi_{d7}\$ 13 \$\psi_{d1}\$!?

Is this really a problem with corresponding squares? At least White's manoeuvre causes a first black weakening:

13...e4?! 14 \$\pmu\$d2

Now Sehner chooses the wrong one of the two plausible alternatives:

14...**\$**d6?

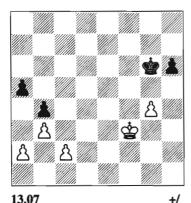
14...\$\perpensecuring\$65! 15 \$\perpensecuring\$2 (15 \$\perpensecuring\$2 \perpensecuring\$5! 16 c5 bxc5! 17 bxc5! \$\perpensecuring\$2 (15 \$\perpensecuring\$4 bxc5! \$\perpensecuring\$5! 18 c6 \$\perpensecuring\$46! 19 \$\perpensecuring\$xe4 \$\perpensecuring\$xc6! 20 \$\perpensecuring\$persecuring\$2 (15 \$\perpensecuring\$2 \$\perpen

15 \$e3! 1-0

Because of 15... \$\precepe e5 16 b5! and White wins.

D) Balance of Risks

For the last two examples we again assume that there are only two minutes left for the last move before the time-control:



1**3.07** Berger – Bauer *corr.* 1889

In this position White can't lose if he doesn't do anything. We therefore first have to reach our time-control:

1 **\$**f4!?

This would be the best practical try in time-trouble. 1 \$\preceps 3 \$\preceps 5 2 c4 \$\precep xg4\$ (for 2...bxc3 see the main line) 3 \$\preceps 4 \$\preceps 5 4\$

\$\preceq\$e5! \$\preceq\$g6 5 \$\preceq\$e6 +--. 1 c4 was played in the actual game.

1...\$f6

Now one can sit back and calculate if there is a way to win. Since this can only be managed by a breakthrough on the queenside, this example is very suitable for the exact calculation of variations. The way to victory isn't so straightforward as it looks at first sight.

2 c4 bxc3 3 \precedege e3! \precedege g5

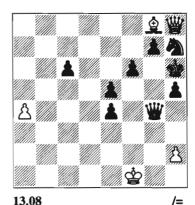
We have now rejoined the correspondence game.

4 a4!! \$\preceq\$xg4 5 b4! axb4 6 \$\preceq\$d3! +-

This move had to be found in the calculation because 6 a5? b3! 7 \(\dot{2}d3! \) b2! 8 \(\dot{c}c2! \) \(\dot{2}f4 9 \) a6! \(\dot{2}e3! 10 \) a7! \(\dot{1}\dot{2}\dot{1} + 11 \) \(\dot{2}xb1! \) \(\dot{2}d2! 12 \) a8\(\dot{2}c2+! 13 \) \(\dot{2}a2 \) c1\(\dot{2}! \) = is still a draw but compared to the starting position troublesome.

1-0

The next example is an anticipation of Chapter 15:



K.Müller – J.Szabolcsi Budapest 1991

Black, who had a good position the whole game long, commits himself with the last move before the time-control by 1...\(\psi \frac{1}{5} + \frac{2}{1}\).

Such key, irreversible decisions should not be made under great time-pressure. Otherwise, however, White could continue in such a way that this opportunity wouldn't exist any longer.

1...g6 2 \\ xh7+! \\ g5 3 \\ f7! =. 2 \\ e1!?

Now Black is forced to reverse his last move and to give up the protection of the knight by the queen. Otherwise White simplifies into a winning pawn ending.

2...h4?

Or:

- a) 2...g6? 3 h4! \$\psid 7 (3...g5 4 \text{\(\text{\hat} \) xh7 5 \$\psi \text{\hat} \) xf6+! \$\psig \) 6 6 \$\psi \hat \) h8+! \$\psi \) 7 hxg5+! \$\psig \) 6 8 \$\psi \) 6 4 \$\text{\(\text{\hat} \) xh7 \$\psi \) xh7+ \$\psi \) xh7 6 a5 +-.
- b) 2...\#f3?3\#xh7+!\\$g54\#xg7+!\\$f5!? (4...\\$h4?! 5\#g3+!\#xg3+ 6\hxg3+!\\$xg3 7\\$e6+-)5\#g3!\#h1+6\\$e2!:
 - b1) 6...h4 7 \\hbrace{1}{2}\text{h3}+! \\hbrace{1}{2}\text{g5 8 } \\hbrace{1}{2}\text{h7} +-.
- b2) 6... ****c**1 7 *****2h7+! ****c**6 8 ****b**3+! ****c**7 (after 8... ****c**46 9 ****d**1+ ******xd1+ 10 ******xd1! ****d**5 11 *****2xe4+ ******xe4 12 a5! +- the black king is in the square of the apawn but the c6-pawn is in his way) 9 *****2f5 +-.
 - b3) 6...c5 7 \(\alpha \)f7 +-.
 - b4) 6...\bullet b1 7 \bullet c3 \bullet b7 8 a5 +-.

- c) 2... \(\forall f4! \) \(\forall xh7+ \(\forall g5 \) 4 \(\forall xg7+ \(\forall f5! = \text{ and because of the active position of the black queen, White can't make any progress.
 - 3 ₩xh7+
 - 3 **≜**xh7 g6 4 **₩**g8! +-.
- 3...\\x\n x\n 7 4 \(\text{\text}\n \n 7!\) \(\pi\n \n 7 5 a 5 g 5 6 a 6 \)
 g4 7 a 7 g3 8 \(\n \n \n 3 \) h3 9 \(\pi \n 1!\) +--

After 9 a8\frac{\pi}{2}? h2! -+ the queen would be helpless against the pawns.

1-0

E) Rules of Thumb

As is often the case in life, the art is not to know the rules but the exceptions. For a better orientation we again summarize:

- · the king should be activated
- · an extra pawn wins almost all the time
- protected passed pawns are very favourable
- outside passed pawns deflect the opponent's king
- isolated pawns and doubled pawns are generally unfavourable
- no rule can replace concrete calculation

Furthermore one should be familiar with the following concepts: opposition (distant, diagonal, virtual), key squares, passed pawn (outside, protected, connected), square rule, majority, breakthrough, zugzwang, reciprocal zugzwang, corresponding squares, triangulation, encirclement, king-march, fight for tempi, fortress, liquidation of one wing,...

14 Complicated Cases

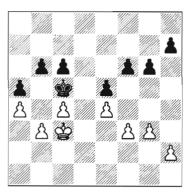
We now offer a few difficult practical examples. Therefore you should get out your board and set, if you haven't already done so. There are several ways to approach our analysis. The easiest way is just to replay it. But it is also beneficial to play the positions out (even if it has to be versus a computer) and then to compare the game and your thoughts with the analysis. Thereby it's quite possible that you soon get on other tracks than we do. The four exercises are also suitable for playing out.

This time our structuring doesn't depend on the content. Nevertheless you should start with the first three examples. Afterwards we look at the top world class and conclude with a very detailed analysis by Claus Dieter ('CD') Meyer.

A) Out of Life

We start with a rapid chess game. After a knight exchange both players only had 5 minutes left for the pawn ending (see following diagram):

What is White to do? Obviously he is worse. On the kingside the tempi are distributed evenly and on the queenside Black threatens to advance to the weaknesses b4 or d4; then ... c6-c5 could give the decisive spare tempo. However, White can save the game if he offers a temporary pawn sacrifice by b4 at the right time, though in order to do that, White shouldn't have a disadvantage of tempi on the kingside and he has to keep the base f3. In this sense White's first move is logical:



14.01 F.Lamprecht – F.Kaye Eimsbüttel rpd 1995

1 g4!?

1 f4 and now:

- b) $1...g5\ 2\ fxg5\ fxg5!\ 3\ g4!\ h6\ 4\ h3\ b5$ $5\ axb5\ cxb5!\ 6\ cxb5!\ 2xb5!\ 7\ 2d3 = .$

1...h5?!

This is not clever because the balance of tempi on the kingside gets much worse.

- 1...b5 2 cxb5 cxb5! 3 axb5! \$\dispxb5 4 h4 is a draw.
 - 1...g5!?:
- a) 2 \$\precedot d3? \$\precedot b4! 3 \$\precedot c2 \$\precedot a3! 4 \$\precedot c3\$ (4 c5 bxc5! 5 \$\precedot c3 \$\precedot a2 -+) 4...c5 -+.
 - b) 2 \$\frac{1}{2}c2? \$\frac{1}{2}c4! 3 \$\frac{1}{2}c5 4 k3 k6! \\ -+.
- c) $2 h3?! b5 (2...h6 3 b4+! =) 3 cxb5 cxb5! 4 axb5! $\display{\psi}xb5 5 $\display{\psi}c2! = (5 $\display{\psi}d3?)$$

ቌb4!6ቌc2ቌa3!7ቌc3 h6!8ቌc2ቌa2! 9ቌc3ቌb1! -+).

d) 2b4 + axb4 + ! 3 2b3! b5 = .

2 gxh5 gxh5! 3 b4+!? axb4+!

After 3...2d6? 4 c5+! 2c7 (4...bxc5 5 bxa5! +-) 5 cxb6+ 2xb6 6 2c4 +- the outside passed a-pawn wins.

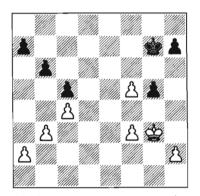
4 **\$**b3! h4

4...\$\d4? (without the f-pawns this counter-attack would win) 5 \$\delta xb4! h4 6 h3! \$\delta 87 c5! +-.

5 h3! \$\d6?

6 \$\pixb4! \$\pic77 c5! \$\pib78 cxb6 \$\pixb6 9 a5+ \$\pia6 10 \$\pic5 \$\pixa5 11 \$\pixc6! \$\pib4 12 \$\pid5 \$\pixa5 13 \$\pie6! \$\pid4 14 \$\pixf6! \$\pie3 15 \$\pixe5! \$\pixf3 16 \$\pif5 \$\pig3 17 e5! \$\pixh3 18 e6 \$\pig2 19 e7 h3 20 e8\$\pi h2 21 \$\pie2+ \$\pig1 22 \$\pig4 h1\$\pi 23 \$\pig3! +- 1-0

The next example was analysed in detail by Yuri Yakovich in *Informator 43*.



14.02 /= Y.Yakovich - B.Kantsler Uzhgorod 1987

The first moves are obvious:

1...h5!

1...\$f6? 2 \$g4! h5+ 3 \$xh5! \$xf5 4 a3 a6 5 a4 +--.

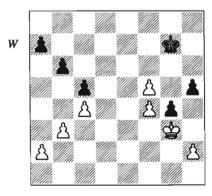
2 f4!?

After 2 h4?? gxh4+ 3 \$\text{\Psi}\$xh4 \$\text{\Psi}\$f6! 4 \$\text{\Psi}\$xh5 \$\text{\Psi}\$xf5! -+ the white king is suddenly cut off.

Time for a stocktaking. Plausible candidates are 2...g4 and 2...\$f6. Their value can only be determined by concrete calculation. If one doesn't have much time, one has to become general. After 2...g4 3 \$\psih4 \psif6 4 \psixh5 \psixf5 5 \psih6 Black can't take at f4 at once because of \(\preceq \text{g6}\). With a pawn less, he should therefore be lost. Let's now look at 2... \$\precepf{6}\$. At first sight the clear-cut 3 fxg5+ \$xg5 4 f6 \$xf6 5 \$f4 doesn't look good. On the other hand. White also has to consider the counterplay against the h-pawn after 5... \$26. If possible one should continue the calculations, but without further calculation (time) 2...\$f6 is preferable.

2...g4? (D)

2...\$\psi6! 3 fxg5+\$\psixg5! 4 f6 \$\psixf6! 5\$
\$\psif4 \psig6! 6 h3 (6 h4 \$\psif6! 7 a3 a6! 8 b4 cxb4! 9 axb4! \$\psie6 =) 6...\$\psif6 7 a3!? (7 h4 a6! 8 a3 b5! 9 cxb5 axb5! 10 \$\psie4\$
\$\psi6! 11 a4 c4 =) 7...a6! 8 a4 \$\psig6! 9 a5 bxa5! 10 \$\psie5\$ \$\psig5 11 \$\psid5\$ \$\psih4 12 \$\psixc5\$\$
\$\psixh3 13 \$\psib6\$ a4 14 bxa4! h4 15 c5 \$\psig3!\$
= and the resulting queen ending with the a-pawn can't be won, especially since the black king is already in the corner diagonally opposite the queening square.



3 \$\pmu\$h4! \$\pmu\$f6 4 \$\pmu\$xh5 \$\pmu\$h5 5 \$\pmu\$h6 a6 6 a4! \$\pmu\$f6 7 \$\pmu\$h5 \$\pmu\$f5 8 \$\pmu\$h6 \$\pmu\$f6 9 \$\pmu\$h7 \$\pmu\$f7

9...\$\psi 10 \$\psi g 7 \$\psi x f 4 11 \$\psi f 6 +-.\$
10 f5

The f-pawn is sacrificed in order to encircle Black.

10...**\$**f6

10...a5 11 f6 \$\psix\$xf6 12 \$\psi\$h6! \$\psi\$f5 13 \$\psi\$h5 \$\psi\$f4 14 \$\psi\$g6 g3 15 hxg3+! \$\psi\$xg3 16 \$\psi\$f5 +- (A7.09).

11 \$\psig8 \$\psixf5 12 \$\psif7 a5

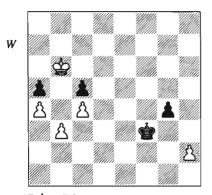
12...\$\psi_g5 13 \$\psi_e6 \$\psi_g6 14 \$\psi_e5 \$\psi_g5\$
15 \$\psi_e4 a5 16 \$\psi_e5 \$\psi_h5 17 \$\psi_f5 \$\psi_h4 18\$
\$\psi_g6! +--.

13 \$e7 \$e5!?

Black at least achieves the transition into a (lost) queen ending.

13...\$\psi\$e4 14 \$\psi\$d6 \$\psi\$f3 15 \$\psi\$e5 \$\psi\$e3 16 \$\psi\$f5 \$\psi\$f3 17 \$\psi\$g5! g3 18 hxg3! \$\psi\$xg3 19 \$\psi\$f5 +-.

14 \$\psi d7 \$\psi d4 15 \$\psi c6 \$\psi e4 16 \$\psi xb6!\$ \$\psi f3 (D)\$

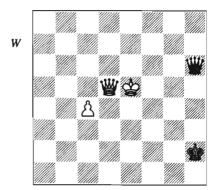


17 **\$**xa5!?

In the ending \(\mathbb{\matha}\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb

17 \$\pixc5?! \$\pig2 18 \$\pixxis 5!\$ (not 18 b4?? \$\pixxis xh2! -+ because the g-pawn queens with check) 18...\$\pixxh2 19 c5! g3 20 c6! g2 21 c7! g1\$\pi 22 c8\$\pi! \pm , e.g.: 22...\$\pig5+ (22...\$\pi e1 23 \$\piaxxis 6 \$\pi e5 24 \$\pi c4 \$\pi g2 25\$ \$\pi c2+ \$\pi f3 26 \$\pi d3+ \$\pi g2 27 \$\pi d2+ \$\pi f3 28 \$\pi xxxis +-; 22...\$\pi a7 23 \$\pi c2+ \$\pi h1 24 \$\pi c3 \$\pi g2 25 \$\pi xxxis +-) 23 \$\pi a6 \$\pi d5 24 \$\pi b7 \$\pi c5 25 \$\pi h7+ \$\pi g2 26 \$\pi g6+ \$\pi h2 27 \$\pi d3 \$\pi g2 (27...\$\pi c6+ 28 \$\pi xxxis! \$\pi c5+ 29 \$\pi b5! \$\pi a7+ 30 \$\pi b4! \$\pi d4+ 31 \$\pi c4! +-) 28 \$\pi b5 \$\pi c3 29 \$\pi c4 \$\pi e5 30 \$\pi c2+ \$\pi f3 31 \$\pi d3+ \$\pi g4 32 \$\pi b5 \$\pi e1 33 \$\pi xxxis +-.\$

17...\$g2 18 \$b5 \$xh2 19 a5! g3 20 a6! g2 21 a7! g1數 22 a8數! 數e3 23 數d5 數xb3+ 24 \$xc5 數a3+ 25 \$b6 \$\disp\delta\$4+ 27 \$\disp\delta\$6 \$\disp\delta\$6+ 28 \$\disp\delta\$5



29 Wd6

Not 29 c5? immediately, allowing a well-known circling perpetual check: 29... \$\mathbb{w}g5+! 30 \div d6 \div d8+! 31 \div c6 \div a8+! 32 \div d6 \div d8+! 33 \div c6 \div g8+! 34 \div c5 \div g5+! 35 \div c4 \div g2+! 36 \div d4 \div d2+! 37 \div c4 \div a2+! =.

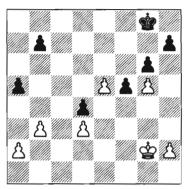
29...₩g5+?!

29...\#e3+!? +-.

30 \$e6+ \$g1 31 \$\dd++- 1-0

Kantsler resigned because it is impossible for Black to avoid the exchange of queens.

In the third example the defender again faces a very difficult task.



14.03 /= S.Grabov – E.Gausel Års 1995

Though White loses the e5-pawn, his hopes are still alive because of the closed structure.

1...\$f7 2 \$f3 \$e6 3 \$f4

3 a3 \$\prec\$xe5 4 \$\prec\$g3 f4+?! 5 \$\prec\$g4! b5 6 b4 a4 7 h3 f3! 8 \$\prec\$xf3! \$\prec\$f5! 9 h4! \$\prec\$e5! =.

3...\$\d5 4 e6 \preceq\text{xe6}

Capturing the e-pawn was very easy. But how should Black continue now? Right now the plan to penetrate with the king via e5 doesn't work because the g5-pawn can't be captured, e.g. 5 a3 \$\displayse\$ d6 6 \$\displayse\$ g3 \$\displayse\$ 5 7 \$\displayse\$ f3 f4 8 \$\displayse\$ g4 f3 9 \$\displayse\$ xf3 \$\displayse\$ f5 10 h4 =. Therefore Einar Gausel has the plan of first moving the king to g7 and then playing ...h6. Without the h-pawns, the g-pawn can't be kept. So White has to play very precisely to reach a very difficult, but probably tenable, queen ending.

5 a3 \$\d6 6 \dg3 \de6 7 \dg4 b6 8 \dg3?

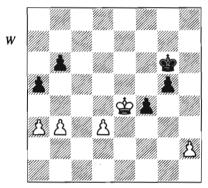
8 h4 \$\psid d5 9 \$\psif f3! \$\psi e5 10 \$\psig g3! f4+!?\$
(10...\$\psid d6 11 \$\psi f3 \$\psi e7 12 \$\psi f4 \$\psi e6 13\$
\$\psif f3! \$\psi f7 14 \$\psi f4! \$\psi g7 15 \$\psi e5! h6 16\$
\$\psi xd4! hxg5 17 hxg5! \$\psi f7 18 \$\psi d5 \$\psi e7\$

19 a4 \$\psi d7 20 d4 \$\psi c7 21 \$\psi e5! \$\psi c6 22\$ \$\psi e6! \$\psi c7! =>> 11 \$\psi f3! \$\psi f5 12 a4! \$\psi e5\$ 13 \$\psi g4! \$\psi d5 14 \$\psi f4! \$\psi c5 15 \$\psi e5\$ \$\psi b4! 16 \$\psi xd4! \$\psi xb3! 17 \$\psi e5! \$\psi xa4! 18 d4! \$\psi b5 19 d5 a4! 20 d6 a3! 21 d7 a2! 22 d8\$\psi a1\$\psi +! 23 \$\psi e6\$ is just slightly better for Black.

8...**\$**f7!

8...\$\precep\$e5? 9 \$\precep\$g3 f4+ 10 \$\precep\$g4! f3 11 \$\precep\$xf3! \$\precep\$f5! 12 h4 b5 13 \$\precep\$g3 =.

9 \$f4 \$g7! 10 \$e5 h6! 11 gxh6+ \$xh6! 12 \$xd4 g5! 13 \$e5 f4 14 \$e4 \$g6 (D)



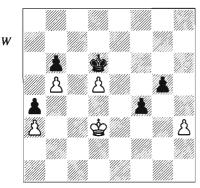
15 b4

15 d4 \$\psi6\$ 16 d5 \$\psie7\$ 17 b4 axb4 18 axb4 \$\psi6\$ 19 h3 (19 b5 \$\psi6\$ 20 d6 \$\psi7\$! 21 \$\psid5\$ \$\psie8\$! 22 \$\psic6\$ \$\psid6\$ 48! \$-+\) 19...\$\psig6\$ (19...b5? 20 \$\psid4\$! \$\psif5\$ 21 \$\psic5\$! f3 22 d6! f2 23 d7! f1\$\psi\$ 24 d8\$\psi!\$ \$\psic4*\$ is a little better for Black) 20 \$\psid3\$ \$\psig7\$ (the start of a triangulation) 21 \$\psid4\$ \$\psif5\$! 25 \$\psid5\$ (forced, but now after a second triangulation the d-pawn is lost) 25...\$\psig6\$ 26 \$\psid3\$ \$\psig7\$ 27 \$\psid4\$ \$\psif7\$ 28 \$\psid3\$ \$\psig6\$! -+.

15...a4 16 d4 \$6 17 d5 \$96!? 18 h3 \$6 19 b5 \$96 20 \$d3 \$f7 21 \$d4 \$e7

After 21...\$\precepg7!? White cannot hold the correspondence (d4-f5, e4-f6, d3-g6): 22 \$\precepg\$d3 \$\precepg\$g6! 23 \$\precep\$e4 \$\precep\$f6! 24 \$\precep\$d4 \$\precep\$f5! -+.

22 \$\pm\$d3!? \$\pm\$d6 (D)



23 \$d4?!

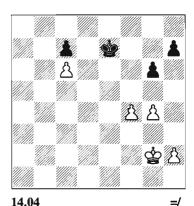
Or 23 \$\dispersection e4!? (Hecht in CBM 50) and now:

- 1) Not, of course, 23...f3?? 24 \$\precextrm{\$\precextrm{\$x}\$} 63...f3?? 24 \$\precextrm{\$\precextrm{\$x}\$} 63...f3?? 24 \$\precextrm{\$x}\$} 63...f3? 24 \$\precextrm{\$x}\$} 63...f3?? 24 \$\precextrm{\$x}\$} 63...f3? 24 \$\precextrm{\$x}\$} 63
 - 2) 23...\$c5? 24 \$e5! and now:
- 2a) 24... \$\preceq\$xb5?! 25 d6! f3! = (but not 25... \$\precep\$c6? 26 \$\precep\$e6! f3 27 d7! f2 28 d8 \$\precep\$! f1 \$\precep\$ 29 \$\precep\$d7+! \$\precep\$c5 30 \$\precep\$d5#!).
- 2b) 24...f3 25 d6! f2 26 d7! f1營 27 d8營! and Black cannot capitalize on his initiative; for example, 27...營f4+ 28 全6營e3+ 29 全f6 營f3+ 30 全g6 營xh3 31 營xg5+ 全c4 32 營f4+ 全xb5 33 營b4+ with a draw.
 - 3) 23...**⊈**e7 −+.
- 23...f3 24 \$\psi e3 \$\psi xd5 25 \$\psi xf3 \$\psi c4!\$ 26 \$\psi e4 \$\psi b3 0-1\$

Because of 27 \$\dd 3 \$\dd xa3 28 \$\dd c3\$ \$\dd a2! 29 \$\dd c2 a3! -+.

B) At the Highest Level

There was a lively discussion in the chess press concerning the following position (for example, H.J.Hecht in *CBM 51*, p.49ff; R.Knaak in *CBM 52*, p.57; J.Timman in *NIC* 2/96, p.43 and 3/96, p.6,35; as well as A.Shirov in *NIC* 2/96, p.36):



A.Shirov — J.Timman Wijk aan Zee 1996

White has three different winning plans:

- 1) A breakthrough by g5 followed by h4 and f5 or to build a protected passed pawn (this plan was chosen by Shirov in the game);
- 2) To centralize the king via f3-e4-e5 and then to get Black into zugzwang in order either to win the c-pawn or to go through with the f-pawn (which was suggested by Timman); and finally
- 3) To penetrate with the king via g3-h4-g5 on the kingside.

However, none of the three plans leads to a win.

Nevertheless, with the win in sight and the power of persuasion Alexei Shirov played...

1 g5!?

The desired effect followed soon: Black resigned!

1-0??

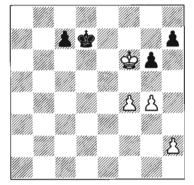
Timman's way of thinking was probably as follows. "If Black captures the cpawn White gets the opportunity for a breakthrough on the kingside by which a seemingly decisive protected passed pawn on f6 results." The first publications after the game agreed with the verdict of

В

the two players until Sven Joachim finally proved the draw in a letter to Schachwoche.

The third plan isn't dangerous for Black at all: $1 \oplus 3 \oplus 46! 2 \oplus 4 \oplus xc6! 3 \oplus 5 \oplus 4 \oplus 6 = (4 \oplus 6 \oplus 4 5 \oplus xh7 \oplus xf4 6 \oplus xg6 \oplus xg4 7 h4 =)$.

The second plan demands more detailed analysis. 1 \$\psi f3\$ (Timman) 1...\$\psi d6\$ 2 \$\psi e4\$ \$\psi \text{xc6}\$ 3 \$\psi e5\$ \$\psi d7!\$ 4 \$\psi f6\$ (D) and now:



a) 4...c5?! 5 \$\preceq\$e5 \$\preceq\$c6! 6 h3 c4 7 \$\preceq\$d4 \$\preceq\$b5! 8 h4:

a1) 8...**\$**b6?!:

a11) 9 f5 gxf5! 10 g5 2b5! 11 h5! f4! 12 g6 hxg6 13 hxg6 f3! =.

a12) 9 h5 gxh5 10 gxh5 \$\disp\$ 5 11 h6 c3 12 \$\disp\$ xc3 \$\disp\$ c5 13 \$\disp\$ d3 \$\disp\$ d5 14 \$\disp\$ e6 15 \$\disp\$ e4 \$\disp\$ f6 = (12.05).

a13) 9 g5 \$\pi b5! (9...\$\pi c6? 10 f5! gxf5
11 h5! f4 12 \$\pi xc4! f3 13 \$\pi d3! \$\pi d5 14
g6 hxg6 15 h6! +-) 10 h5 (10 \$\pi c3 \$\pi c5!
11 f5 gxf5! 12 h5 f4! =) 10...gxh5 11 f5!
h4 12 f6 h3 13 f7 h2! 14 f8\$\pi h1\$\pi! 15
\$\pi c5+ \$\pi a6 16 \$\pi xc4+ \$\pi b6 17 \$\pi c5+
\$\pi a6 =.

a14) $9 \triangleq xc4 \triangleq c6! = (7.16)$.

a2) 8... \$\delta b4 9 f5! gxf5 10 gxf5! c3 11 f6 c2 12 f7! c1 \$\delta\$ 13 f8 \$\delta +! \$\delta b5 14 \$\delta\$ f5+ \$\delta b4 15 \$\delta xh7 =.

b) 4...c6 5 h3 (5 \(\precent{

11 \(\mathbb{\psi}65 + \mathbb{\psi}c7 \) 12 \(\mathbb{\psi}xh7 =) 5...c5 6 \(\mathbb{\psi}c5 \) \(\mathbb{\psi}c6! \) 7 \(h4 \cdot 4 \) 8 \(\mathbb{\psi}d4 \) \(\mathbb{\psi}b5 \) 9 \(f5 \) gxf5! 10 \(gxf5! \) (10 \(g5? \) f4! 11 \(h5 \) f3! 12 \(g6 \) hxg6 13 \\(hxg6 \) f2! 14 \(g7 \) f1\(\mathbb{\psi}! \) 15 \(g8\(\mathbb{\psi}\) \(\mathbb{\psi}d3 + \) and \(\mathbb{\psi}ins) 10...c3 \((10...\) \(\mathbb{\psi}c6 = (Krasenkow; see 12.07)) 11 \(\mathbb{\psi}xc3 \) \(\mathbb{\psi}c5 =.

1...\$d6! 2 h4

2 f5 gxf5! (after 2...\$\pixc6? 3 f6! +—
the h-pawn that is still at h2 provides the
necessary spare tempi for a win) 3 h4
\$\pi 65 4 \pi f3 f4! 5 h5 \pi f5! 6 g6! hxg6! 7
h6 \pi f6! 8 \pixf4 g5+! 9 \pi g4 \pi g6! 10 h7!
\$\pixh7! 11 \pixg5 \pi g7! =.

2...\$xc6! 3 f5!? \$d6

3...gxf5? 4 h5! +-.

4 f6 \$e6 5 \$f3 \$d7 6 \$e4

6 h5?! gxh5! 7 \$\precepg3! \$\precepe 6 (7...c5 8 \$\preceph4! c4 9 \$\precepxh5! c3 10 \$\preceph 6 \precepe 6 11 \$\precepg7! =) 8 \$\preceph 4! \$\precep f7 9 \$\precepxh5! c5! 10 \$\precep 6 c4! 11 \$\precep xh7! =.

6 \psig4 \psie6 7 h5!?:

a) 7...gxh5+? 8 \$\pixh5! c5 9 \$\pih6! c4 10 \$\pig7 (10 \$\pixh7 c3 11 \$\pig6! c2 12 f7! c1\$\pi 13 f8\$\pi! +-) 10...c3 11 f7! c2 12 f8\$\pi! c1\$\pi 13 \$\pif6+ \$\pid5 14 \$\pixh7 +- (Hecht).

b) 7...\$f7!! (Joachim) 8 hxg6+\$xg6! = (8...hxg6? 9 \$\frac{1}{2}\$ \$\frac{

6...**\$**e6

6...\$\d6? 7 h5! gxh5 8 \$f5! h4 9 g6! hxg6+ 10 \$xg6! +-.

7 \$\d4 \$\d7

7...c6? 8 2e4! 2d6 9 h5! +-.

8 \$\d5 \$\exists e8!

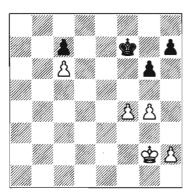
8...\$\preceq d8? 9 \$\preceq c6! +- is reciprocal zugzwang with Black to move.

9 **∳**e6

 $9 \implies c6 \implies d8! = .$

9...\&f8! =

Now White can't make any progress because 10 \$\doldondowd7?? fails to 10...c5! and Black wins.



14.04A +/
Variant of Shirov – Timman,
Wijk aan Zee 1996

If in the starting position one moves the black king to f7, the plan chosen by Shirov in the game wins, as the analysis above has already shown. The plan to penetrate with the king on the kingside also wins but the march of the king through the centre doesn't, because here Black surprisingly has enough resources to draw.

1 g5!?

1 \$\psi f3? \$\psi 6 2 \$\psi 4 (2 g5 \$\psi d5 3 f5 gxf5! 4 \$\psi f4 \$\psi xc6! 5 \$\psi xf5 \$\psi d6 =) 2...\$\psi d6! 3 h4 (3 f5 gxf5+! 4 gxf5 \$\psi xc6! 5 \$\psi 5 \$\psi d7! 6 \$\psi f6 c5! 7 \$\psi g7 c4! 8 f6 c3! 9 f7 c2! 10 f8\$\psi c1\$\psi! 11 \$\psi f5 + \$\psi c7 12 \$\psi xh7 =) 3...\$\psi xc6! 4 \$\psi e5 \$\psi d7! 5 \$\psi f6 c5 6 f5 gxf5 7 gxf5 c4 8 \$\psi g7! c3 9 f6! c2 10 f7! c1\$\psi 11 f8\$\psi! =.

1 **⊈**g3:

- a) 1...\$f6 2 g5+ (2 \$\psi h4 h6 3 f5 gxf5 4 gxf5! \$\psi xf5 5 \$\psi h5! +-) 2...\$\psi e6 3 h4! \$\psi d6 4 h5 gxh5 5 f5 \$\psi e5 6 f6 \$\psi e6 7 \$\psi h4! +-
- b) 1...\$\pe6 2 \pen4! \$\perp d6 3 \penp5! \$\perp xc6 4 \$\penph h6!\$ \$\penph d5 (4...\$\penph d6 5 \$\penp xh7 c5 6 \$\penp xg6! c4 7 f5! c3 8 f6! c2 9 f7! c1\$\penph 10 f8\$\penph +! +-; 4...\$\perp d7 5 f5 +-) 5 \$\penp xh7 \$\peq 6 (5...c5 6 f5 gxf5 7 g5! +-) 6 \$\penp xg6 \$\penp xf4 (6...c5 7 f5 c4 8 f6 c3 9 f7 c2 10 f8\$\penph c1\$\penph c1\$\penph c1\$\$\penph c1\$\$\penph c1\$\$\penph c1\$\$\penph c1\$\$\penph c1\$\$\penph c1\$\$\penph c1\$\$\penph c2\$\$\penph c1\$\$\penph c2\$\$\penph c1\$\$\penph c2\$\$\penph c2\$\$\penph c2\$\$\penph c2\$\$\penph c2\$\$\penph c3\$\$\penph c2\$\$\penph c3\$\$\penph c2\$\$\penph c3\$\$\penph c3\$\$\penph c3\$\$\penph c3\$\$\penph c4\$\$\penph c3\$\$\penph c4\$\$\penph c5\$\$\penph c4\$\$\penph c4\$\$\penph c5\$\$\penph c4\$\$\penph c5\$\$\penph c4\$\$\penph c4\$\$\penph c4\$\$\penph c4\$\$\penph c4\$\$\penph c5\$\$\penph c4\$\$\penph c5\$\$\penph c5\$\$\penp

11 \(\psi f5 + \phi d4 12 \) h4 +-) 7 h4 c5 8 h5! c4 9 h6! c3 10 h7! c2 11 h8\(\psi!\)! c1\(\psi\) 12 \(\psi h6 + ! +-).

1...\$e6 2 h4! \$d6

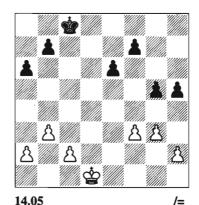
- 2...\$\preceq\$d5 3 f5! gxf5 4 h5! \$\preceq\$e6 (4...\$\preceq\$e5 h6! +--) 5 \$\preceq\$f3 +--.
- 2...\$\Psi 5 3 \Psi 6 4 \Psi 9 4 \Psi 6 5 f5 gxf5+ (5...\$\Pxc6 6 h5 gxh5+ 7 \Psi xh5 \Psi d7 8 g6 hxg6+ 9 fxg6 \Psi e7 10 \Psi h6! +-) 6 \Pxf5 \Pxc6 7 h5 \Psi d7 8 g6 hxg6+ 9 \Pxc6! +-.

3 f5! gxf5

3... \(\preceq\) xc6 4 fxg6 hxg6 5 h5! gxh5 6 g6! +--.

4 h5! \$\preceq\$e6 5 \$\preceq\$f3 +--

Now let's look at an even higher-level game:



A.Karpov – A.Shirov Buenos Aires 1994

For a weaker player it would soon become very difficult to hold the position against either one of these two players. Nevertheless we want to try to understand some of the thoughts with the help of the analysis by Shirov in *Informator 62*. The position is in a way sharpened by the different majorities. In general the shorter majority is favourable, but here this is by far outweighed by Black's right

to move and his space advantage on the kingside.

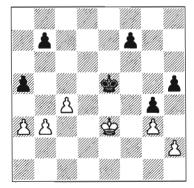
1...**⊈d**7

1...g4!? 2 \$\div e2:

- a) 2...gxf3+? 3 \$\pixf3! \$\pidf 7 (3...e5 4) g4 h4 5 \$\pie4 e4 f6 6 g5 +-) 4 h4 e5 (4...f5 5) \$\pif4! \$\pid6 6 c4! +-) 5 g4! hxg4+ 6 \$\pixg4! \$\pie6 7 c4 +-.
- b) 2...\$\psi d7 3 \$\psi 8 = 5 4 f4 \$\psi 6! = (Shirov; 4...f6? 5 fxe5 fxe5 6 \$\psi 4 \psi 6 7 c4 a5 8 a3 b6 9 b4 a4 10 c5! b5 11 c6 +-) 5 fxe5 \$\psi xe5! (5...b5? 6 \$\psi 4 b4 7 \$\psi d4 a5 8 \$\psi 4! +-) 6 c4 arrives at a very interesting position. Black, who has the more active king, must ensure that his a-pawn stays on the board, so that he doesn't get into trouble with his backward f-pawn.
- b1) 6...f5? loses, because Black gives up the reserve tempo ...f6, and the active idea of exchanging pawns on the kingside fails by a hair's breadth. 7 b4! f4+ (7...h4 8 gxh4 +-) 8 gxf4+! \$\phi\$f5 9 b5 axb5 (9...h4 10 b6 \$\phi\$66 11 \$\phi\$f2 +-) 10 cxb5! h4 11 a4 h3 12 \$\phi\$f2! \$\phi\$xf4 13 a5 +-.

b2) 6...a5 7 a3 (D):

В



b21) 7...f5? 8 b4!:

b211) 8...axb4 9 axb4! b6:

b2111) 10 b5? \$\precede{\prece

h6! b2 21 h7! b1豐 22 h8豐+! 堂c4 23 豐d4+ 堂b5 24 豐d3+ +-) 11 堂d4 堂e6! 12 堂d3 = (12 c5? bxc5+! 13 堂xc5 f4! 14 gxf4 h4! 15 f5+ 堂d7! --+).

b2112) 10 c5! b5 11 h4 gxh3 12 \prescript{\pr\prescript{\prescript{\prescript{\prescript{\prescript{\prescript

b212) 8...a4 9 c5! \$\text{\pi}\$ d5 (9...h4 10 gxh4 f4+ 11 \$\text{\pi}\$f2 +--) 10 \$\text{\pi}\$f4! \$\text{\pi}\$e6 11 \$\text{\pi}\$g5! +--.

b22) 7...b6:

b221) 8 \dd3:

b2211) 8...a4 9 bxa4 f6:

b22111) 10 c5? bxc5! 11 a5 (11 \$c4 \$d6! 12 \$b5 f5! 13 a5 \$c7! 14 \$xc5 f4! -+) 11...\$d5 12 a6 \$c6! 13 \$c4 (13 \$c4 f5! -+) 13...\$b6! 14 \$d5 f5! 15 \$c5 c4! 16 \$c4 h4 -+.

b22112) 10 \$\pm\$23 \$\pm\$46 11 \$\pm\$264 \$\pm\$c5!: b221121) 12 \$\pm\$43 f5 13 a5! bxa5! 14 a4! \$\pm\$c6 = (14...\$\pm\$b4?! 15 \$\pm\$44! \$\pm\$xa4! 16 c5 \$\pm\$b5! 17 \$\pm\$45! f4! 18 gxf4 h4! =).

b221122) 12 \$\psi f5 \psi xc4! 13 \psi xf6 \$\psi b3! 14 \psi g5 \psi xa4 15 \psi xh5! =.

b2212) 8...f6 9 b4 a4! (9...axb4? 10 axb4! f5 11 \$\text{\$\phi}\$e3 +-) 10 \$\text{\$\phi}\$e3 f5! 11 b5! \$\text{\$\phi}\$e6 (11...\$\text{\$\phi}\$d6 12 \$\text{\$\phi}\$d4 \$\text{\$\phi}\$e6! 13 c5? bxc5+! 14 \$\text{\$\phi}\$xc5 f4 15 gxf4 h4! -+) 12 \$\text{\$\phi}\$f4?! (12 \$\text{\$\phi}\$d3 =) 12...\$\text{\$\phi}\$d6!:

b22121) 13 \$\preceq\$xf5? \$\preceq\$c5! 14 \$\preceq\$5 (14 \$\preceq\$5 \$\preceq\$xc4! 15 \$\preceq\$xh5 \$\preceq\$b3! 16 \$\preceq\$xg3! -+) 14...\$\preceq\$xc4! 15 \$\preceq\$d6 \$\preceq\$xb5! 16 \$\preceq\$d5 \$\preceq\$a6 17 \$\preceq\$d6 \$\preceq\$b7! -+.

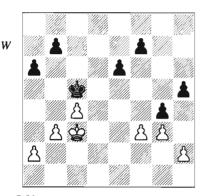
b22122) 13 \$\pmeq 81 \pmeq 65 14 \$\pmeq 43! =. b222) 8 b4 a4 9 \$\pmeq d3 f6! 10 \$\pmeq 63 f5! 11 b5! =.

2 **⋭**d2

2 h3?! \$\delta d6 3 \$\delta d2 \$\delta c5 4 c3 b5:

- a) 5 a3? enables Black to breach the queenside by ...a5-a4: 5...a5 6 \$\pi\$d3 f6 7 \$\pi\$e4 (7 g4 h4 -+) 7...a4! 8 bxa4 bxa4! 9 \$\pi\$d3 h4 10 gxh4 (10 g4 \$\pi\$d5 11 c4+ \$\pi\$c5 12 \$\pi\$c3 f5 13 \$\pi\$d3 fxg4! 14 fxg4 e5! -+) 10...gxh4! 11 c4 e5 12 \$\pi\$c3 f5! 13 \$\pi\$d3 e4+ -+.
 - b) $5 ext{ } ext{d} ext{3 } ext{f} ext{6} = .$
 - 2...\$d6 3 c4 \$c5 4 \$c3 g4 (D)

4...a5?! 5 h3!? f6 6 a3 b6 7 b4+ axb4+ 8 axb4+! \$\circ\$c6 9 \$\circ\$d4 \$\circ\$d6 10 g4 hxg4! (10...h4? 11 \$\circ\$e4 \$\circ\$c6 12 f4 gxf4 13 \$\circ\$xf4! e5+ 14 \$\circ\$f5 \$\circ\$d6 15 g5 fxg5 16 \$\circ\$xg5! +-) 11 hxg4 \$\circ\$c6 12 \$\circ\$e4 \$\circ\$d6 13 f4 gxf4! 14 \$\circ\$xf4! \$\circ\$e7 =.



5 f4 5 b4+ **\$**d6 6 f4:

a) 6...e5?! 7 c5+!? (for 7 fxe5+ riangle xe5! 8 riangle d3 b6! $9 riangle e3 a5 10 a3 a4 = see note 'b222' to Black's 1st move {after <math>8...a4$ }) 7... riangle d5 8 fxe5! riangle xe5 9 riangle c4!? f5! 10 a4!:

a1) 10...h4?! 11 b5 (11 gxh4 \$\frac{1}{2}\$e4! 12 \$\frac{1}{2}\$c3 f4! 13 \$\frac{1}{2}\$d2! \$\frac{1}{2}\$f3! 14 h5 g3 15 hxg3 fxg3! 16 h6 g2! =) 11...axb5+ 12 axb5! hxg3 13 hxg3! f4! 14 gxf4+! \$\frac{1}{2}\$e4!! and Black draws.

a2) 10...f4 11 gxf4+! \$\preceq\$e4! = (and not 11...\$\preceq\$xf4? 12 b5! axb5+ 13 axb5! \$\preceq\$e5 14 b6! +-).

b) $6...f67 \implies d4 \implies c68 a4b6 = ...$

5...a5!? 6 a3! f6 7 b4+ axb4+ 8 axb4+! \$\psi d6 9 \$\psi d3 \$\psi c6 10 \$\psi d4 \$\psi b6\$

10...b6 = (Karpov).

11 b5 \$\psi a5 12 \$\psi c5! e5! 13 fxe5! fxe5! 14 \$\psi d5! \$\psi b4\$

14...\$b6 15 \$xe5! \$c5! =.

15 b6! e4! 16 \$\div xe4

16 c5?! \$\phi\$b5 17 \$\phi\$d6! e3 18 c6! \$\phi\$xb6 19 c7! e2! 20 c8\$\psi! e1\$\psi! 21 \$\psi\$c5+ \$\phi\$a6 22 \$\psi\$xh5 =.

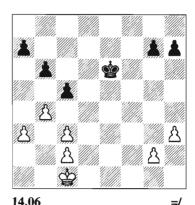
16...**⇔**xc4

16...\$\psic 5 17 \$\pmes 6 (17 \$\pmes f5 \$\pmes xb6! 18 \$\pmes g5 \$\pmes c5! 19 \$\pmes xh5! \$\pmes xc4! 20 \$\pmes xg4! =) 17...\$\pmes xc4 = (17...\$\pmes xb6? 18 \$\pmes d6! \$\pmes a5 19 \$\cdot 5! \$\pmes b5 20 \$\pmes d5! \$\pmes b4 21 \$\cdot 6! +- Shirov).\$

17 \$\psi 65 \$\psi 65 18 \$\psi 95 \$\psi xb6! 19 \$\psi xh5!\$ \$\psi 32 \$\psi xg4! b5! \$\frac{1}{2} - \frac{1}{2}\$

21 h4! (21 \$\psi 63?\) is wrong because after 21...b4! 22 \$\psi 2 \$\psi 4! 23 \$\psi d2 \$\psi a3!\) 24 \$\psi c1 \$\psi a2!\) -+ the b-pawn is unstoppable) 21...b4! 22 h5! b3! 23 h6! b2! 24 h7! b1\$\psi! 25 h8\$\psi! \$\psi 64 + 26 \$\psi 5!\$ \$\psi 63 + 27 \$\psi h4 \$\psi 64 + =.

The next position, from a rapid chess game, is also difficult to assess:



V.Kramnik - G.Kasparov New York Intel PCA rpd (3) 1995

Since White's extra pawn is doubled, Black has good chances to draw with his active king:

1 \$\d2 c4?!

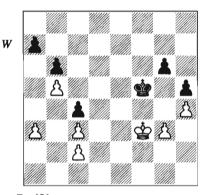
1...\$\psi 5 2 \$\psi 3 c4+ 3 \$\psi 2 \sigma 5 4 \$\psi 4\$
\$\psi 6 5 \$\psi 4 \text{ h6 6 \$\psi 4 \$\psi 6! 7 g3 g6 (7...g5 8 h4 gxh4! 9 gxh4! h5! 10 \$\psi 6! = 10 \$\psi 6! \psi 6! = 10 \$\psi 6! \psi 6! 11 g4 hxg4 (11...a6 12 g5+ \$\psi 6 17! 13 \$\psi 65 \$\psi 6 7! = 12 \$\psi xg4! \$\psi 6 13 \$\psi g5 \$\psi 6 7! 14 h5 gxh5! = .

2 h5!? \$\d5 3 \$\d2 e3 \$\d2 e5!

3...g5? 4 \$\Delta f3! \$\Delta 5 (4...h5 5 h4 \$\Delta 5 6 hxg5 \$\Delta f5 7 \$\Delta g3 \$\Delta xg5 8 \$\Delta h3! h4 9 g3 hxg3 10 \$\Delta xg3! +--) 5 \$\Delta g4! \$\Delta f6 (5...\$\Delta 6 \$\Delta xg5! \$\Delta c3 7 \$\Delta f5 \$\Delta d2 8 \$\Delta c4 \$\Delta xc3 9 \$\Delta d5! \$\Delta xc2 10 \$\Delta xc4! +--) 6 \$\Delta h5! \$\Delta f5 7 g3 \$\Delta c4 8 \$\Delta xg5! \$\Delta c3 9 \$\Delta f6 \$\Delta d2 (9...\$\Delta f3 10 h4 +--) 10 \$\Delta c5! \$\Delta xc3 11 \$\Delta d5! \$\Delta xc2 12 \$\Delta xc4! +--.

4 h4 h5 5 g3 g6 6 \$f3 \$f5! (D)

6...g5? 7 hxg5! \$\precept{



7 a4?! 7 g4+!?:

a) 7...hxg4+? 8 \Pg3! \Pe5 (8...\Pf6 9 \Pxg4 \Pf7 10 h5 +-) 9 \Pxg4! \Pe6 10 \Pg5! \Pf7:

al) 11 \$\preceq\$h6 \$\preceq\$f6:

a11) 12 a4? \$\psi 5! (12...\$\psi f7? 13 \$\psi h7! \$\psi 6 14 \$\psi g8! \$\psi f5 15 \$\psi f7! +--) 13 \$\psi g7 g5! 14 hxg5 \$\psi xg5! 15 \$\psi f7! \$\psi f4! 16 \$\psi e6 \$\psi e3! 17 \$\psi d5 \$\psi d2! =.

a12) 12 \$\pih7!\$ g5 (12...\$\pif7\$ 13 a4! \$\pif6\$ 14 \$\pig8!\$ g5 15 h5! +-) 13 hxg5+! \$\pixg5\$ 14 \$\pig7!\$ \$\pif4\$ 15 \$\pif6!\$ \$\pie3\$ 16 \$\pie5!\$ \$\pid2\$ 17 \$\pid4!\$ \$\pixc2\$ 18 \$\pixc4!\$ \$\pid2\$ 19 \$\pib4\$ \$\pid3\$ 20 c4! \$\pid4\$ 21 a4! \$\pie5\$ 22 c5! +-.

a2) 11 h5 gxh5 12 \$\prec\$xh5! \$\prec\$f6 13 \$\prec\$g4 \$\prec\$e5 14 \$\prec\$f3 \$\prec\$f5 15 \$\prec\$e3 \$\prec\$e5 16 a4! +-.

b) For 7...\$\perpense2e5! 8 a4!? = (8 gxh5 gxh5! =) see the game.

7...**\$**e5?!

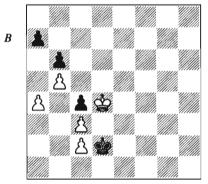
Much simpler is 7...g5!? 8 hxg5! \$\preceq\$xg5! = (Vaïsser in *CBM Express 47*).

8 g4!? \place e6?

It's hard to believe but the world champion could still escape: 8...hxg4+! 9 \$\preceq\$xg4! \$\preceq\$f6! (9...\$\preceq\$6? 10 \$\preceq\$f4! \$\preceq\$f6 11 \$\preceq\$e4! \$\preceq\$6 12 \$\preceq\$d4! \$\preceq\$f5 13 \$\preceq\$xc4! \$\preceq\$g4 14 \$\preceq\$d3 \$\preceq\$xh4 15 c4 +-) 10 \$\preceq\$f4 \$\preceq\$g7! and now:

a) 11 \$\pmes \$\pmes \text{h6!} 12 \$\pmes \text{d6}\$ (12 \$\pmes \text{d5}\$) \$\pmes \text{h5!} 13 \$\pmes \text{xc4} \$\pmes \text{xh4!} 14 \$\pmes \text{d3}\$ g5! 15 \$\pmes \text{e2} \$\pmes \text{h3!} 16 \text{c4} g4! 17 \text{c5!} \text{bxc5!} 18 \text{a5!} g3! 19 \text{b6!} =) 12...\$\pmes \text{h5!} 13 \$\pmes \text{f7} \$\pmes \text{xh4} 14 \$\pmes \text{xg6!} \$\pmes \text{g4} =.

b) 11 \$\preceq\$5 \$\preceq\$f?! 12 h5 gxh5! 13 \$\preceq\$xh5! \$\preceq\$6 14 \$\preceq\$g4 \$\preceq\$e5! 15 \$\preceq\$5 \$\preceq\$e4! 16 \$\preceq\$f6! \$\preceq\$e3 17 \$\preceq\$e5! \$\preceq\$d2 18 \$\preceq\$d4! (D).



18...\$\psid1\$ (!!) (but not 18...\$\psixc2? 19\$\psixc4! \$\psid2\$ 20 \$\psid4\$ \$\psic2\$ 21 c4 \$\psib3\$ 22 a5! bxa5 23 c5! a4 24 b6 +--) 19 \$\psixc4\$ \$\psixc2!\$ 20 \$\psib4\$ \$\psid3!\$ 21 \$\psib3\$ (21 c4 \$\psid4!\$ is also a draw) 21...\$\psic4!\$ 22 c4 \$\psic5! =.

9 gxh5! gxh5 10 &f4?!

Taking the opposition by 10 \(\preceq e4!?\) would have won at once: 10...\(\preceq f6 11 \) \(\preceq f4 \) \(\preceq g6 12 \) \(\preceq e5 +-\).

10...\$f6 11 \$e4! \$e6 12 a5?

12 \$\preceded 4! \$\precedef 5 13 \$\precede xc4! \$\precede g 4 14 \$\precede d 3!\$ \$\precede xh4 15 c4 \$\precede g 5 (15...\$\precede g 3 16 c5 h4 17 a5 h3 18 axb6 axb6 19 cxb6! +-; 15...\$\precede g 4

16 c5 bxc5 17 a5 h4 18 b6 axb6 19 a6 +--) $16 c5 h4 17 $\preceq e2 +--.$

12...bxa5! 13 \$\psi d4! \$\psi f5 14 \$\psi xc4! \$\psi g4\$

14...\$\psi e4 15 \psi b3 \psi d5 16 \psi a4 \psi c4 17 \psi xa5! \psi xc3 18 \psi a6 \psi c4 =.

15 **\$**b3

15 \$\preceq\$d4!? \$\preceq\$xh4! 16 c4! \$\preceq\$g5! 17 c5! h4! 18 b6 axb6! 19 cxb6 h3! 20 b7 h2! 21 b8\$\preceq\$ h1\$\preceq\$! 22 \$\preceq\$e5+ \$\preceq\$g6 23 \$\preceq\$xa5 \$\preceq\$d1+=.

15...\$\pixh4! 16 c4 \pig5! 17 c5 h4! 18 c6 h3! 19 c7 h2! 20 c8\pi h1\pi! 21 \pid8+ \pif5 22 \pid3+ \pie5 23 \pie3+

23 \c3+!? \d6 24 \d24 \d24 \d2.

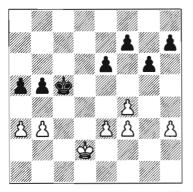
23...**\$**d6 24 **₩**d4+ **\$**e6

24...\dds+25\dds+\dds+\dds+26\dds+26\dds+ \dds24.27\dds+25\dds+263\dds+264\dds+264=.

25 \u2226c4+\u2226c46 26 \u2226c4f4+\u2226c46 27 \u2226c463+\u2226c46 28 c4?! \u2226c4b1+ 29 \u2226c3 \u2226c4a1+ 30 \u2226c4d1 \u2226c4c4c4 20 \u2226c4c4 20 \u2226c4c4 20 \u2226c4c4c4 20 \u

There could have followed, e.g., 35 \$\psie2 \psixe2+ 36 \psixe2! \psic4 37 \psid2 \psib3 38 \psic1! =.

The following game up until Black's error on move 4 was characterized by great time-trouble:



14.07 ₹/ A.Karpov – G.Kasparov Las Palmas 1996

1 \$\psi d3 f6 2 h4?! \$\psi d5 3 b4?

3 e4+! \$\precede{\phi}\$d6 4 \$\phi\$e3 e5 5 f5! (5 fxe5+? fxe5! -+) 5...gxf5 6 exf5! \$\phi\$d5 7 \$\phi\$d3 a4 8 bxa4 bxa4! 9 h5 h6 10 \$\phi\$c3! e4 11 fxe4+! \$\phi\$xe4! 12 \$\phi\$b4! \$\phi\$xf5 13 \$\phi\$xa4! \$\overline{\pi}\$.

3...axb4! 4 axb4 h6? (D)

Giving away the decisive reserve tempo – this was actually move 40 in the game.

4...e5!:

- a) 5 h5 (this idea, to build a fortress, is 'obviously' doomed to fail, but see for yourself how close it is) 5...gxh5! 6 e4+ \$\pmed{\pmed}e6! 7 f5+ \$\pmed{\pmed}f7! 8 \$\pmed{\pmed}e3 h4 9 \$\pmed{\pmed}f2 \$\pmed{\pmed}g7! 10 \$\pmed{\pmed}g2 \$\pmed{\pmed}h6! 11 \$\pmed{\pmed}h3 \$\pmed{\pmed}g5 -+.
 - b) 5 fxe5:
- b1) 5...\$\perpxe5? 6 f4+! \$\perprecepfs 7 \$\perprecepd 4!\$ h6 (7...h5 8 \$\perprecepd 5!\$ g5 9 fxg5! fxg5! 10 e4+!\$ =) 8 \$\perprecepd 5!\$ g5 9 fxg5! phxg5 hxg5 10 fxg5 fxg5! 11 \$\perprecepd 5!\$ g4! 12 e4+ \$\perprecepd 6!!\$ (9 \$\perprecepd 4!\$ g5! 10 fxg5 fxg5! 11 e4+ \$\perprecepd 6!\$ (9 \$\perprecepd 4!\$ g5! 10 \$\perprecepd 5!\$ 11 fxg5! fxg5! 12 e4! =.
- b2) 5...fxe5! 6 \$\preceq\$c3 h5 7 \$\preceq\$d3 e4+! 8 fxe4+ \$\precep\$e5! 9 \$\precep\$e2 \$\precep\$xe4 10 \$\precep\$f2 g5 11 hxg5 \$\precep\$f5! -+.
 - c) 5 e4+ **\$\pi**d6:
 - c1) 6 \(\psi e3 \(\psi e6 \rightarrow +. \)
 - c2) 6 f5:
- c21) After 6...\$\pi 7? Black cannot make progress on the kingside, as the following variation illustrates: 7 fxg6 hxg6 8 \$\pi 6 9 \$\pi f2 (9 f4? exf4+! 10 \$\pi xf4 g5+! 11 hxg5 fxg5+! 12 \$\pi xg5 \$\pi e5! -+) 9...\$\pi f7 10 \$\pi g3 \$\pi g7. Now:
- c211) 11 \$\dispha\$h3 f5 12 exf5 gxf5! 13 h5 \$\dispha\$h7! 14 \$\displa\$g3! \$\displa\$g7! 15 \$\dispha\$h3! =.
- c212) 11 \(\partial g4?! \) \(\partial h6 \) 12 \(\partial g3! \) (12 f4? exf4! 13 \(\partial xf4 \) \(\partial h5! \) 14 \(\partial g3 \) g5! 15 hxg5 fxg5! 16 e5 \(\partial h6! \) 17 \(\partial f3 \) \(\partial g7 \) 18 \(\partial e4 \) \(\partial g6! \) 19 \(\partial d5 \) \(\partial f7! \) -+) 12...\(\partial h5 \) 13 \(\partial h3! \) f5 14 exf5 gxf5! 15 \(\partial g3! = . \)
- c213) 11 f4 exf4+ 12 \(\psi\x\)f4! \(\psi\)f7 13 e5!? f5 14 \(\psi\)g5 \(\psi\)e6 15 \(\psi\)f4! (15 \(\psi\x\)g6?? f4! \(-+\) 15...\(\psi\)e7 = (and not 15...\(\psi\)d5? 16

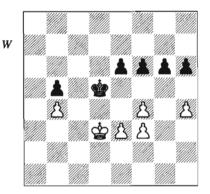
h5! gxh5 17 \$\dispxf5! h4 18 e6! \$\disp\d6 19 \$\disp\f6! +-\).

c22) 6...gxf5! 7 exf5 \$\ddot d5! 8 h5 h6! 9 \$\ddot c3 e4! 10 f4 e3! 11 \$\ddot d3 e2! -+.

c3) 6 fxe5+ fxe5 (6...\$\preceq\$xe5 7 \$\preceq\$e3 g5! -+) 7 \$\preceq\$e3 \$\preceq\$e6:

c31) 8 f4 exf4+ 9 \(\preceq\)xf4 h6 10 e5 g5+!
-+ (10...\(\preceq\)d5?? 11 h5! g5+ 12 \(\preceq\)f5! g4
13 e6! \(\preceq\)d6 14 \(\preceq\)f6! g3 15 e7! g2 16
e8\(\preceq\)! g1\(\preceq\) 17 \(\preceq\)xb5 +-; 10...\(\preceq\)f7? 11
\(\preceq\)f3 \(\preceq\)e6 12 \(\preceq\)e4! g5 13 h5! =).

c32) 8 \$\psif2 \$\psif6 9 \$\psig3 \$\text{h6}! 10 \$\psih3\$ h5! 11 \$\psig3 \$\text{g5}! -+.



5 e4+!

From now on, Karpov steers his ship safely to the haven of a draw.

5...**\$**d6 6 **\$**e3 e5

7 fxe5+! fxe5

7...\$\preceq\$xe5 8 f4+! \$\preceq\$e6 9 \$\preceq\$f3 g5 10 hxg5 hxg5 11 \$\preceq\$g4 gxf4! 12 \$\preceq\$xf4! =.

8 \psi f2 \psi e6

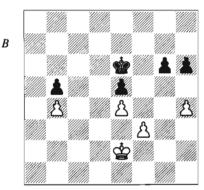
After long thought, Karpov played...

9 **⊉**g2

...when the game ended in a draw $(\frac{1}{2}-\frac{1}{2})$.

Frederic Friedel described this in CBM 57 thus: "In the press room, Fritz confirmed what all the grandmasters had already said: 9 \(\mathbb{g} \)g2 is the only move for

Karpov to make a draw." From the practical point of view one should play 9 ★g2, but surprisingly it is not the only move; there is also 9 ★e2?! (D):



a) 9...h5? goes too far: 10 \$\pmea0\$! g5 (10...\$\pmeaf7 11 f4! g5!? 12 hxg5! \$\pmeag6 13 f5+ \pmeaxg5 14 \pmeaf3 +-) 11 hxg5! h4 12 f4! h3 13 f5+! +-.

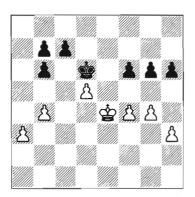
b) 9...\$\psi6 10 \$\psi3!\$ g5 11 h5! g4!? 12 f4! (12 fxg4? \$\psi5!\$ 13 \$\psi63 \$\psih4!\$ -+) 12...\$\psi64! (12...\$\psi66 13 f5+!\$\psi64!\$ 4\$\psi62 \$\psi5\$ 15 \$\psig3\$ \$\psixh5\$ 16 \$\psig2\$ \$\psi5\$ = because Black cannot support his pawns with his king owing to the protected passed f-pawn; 12...g3 13 f5! \$\psi5\$ 14 \$\psi63\$ \$\psixh5\$ =) 13 \$\psixf4!\$ g3! 14 e5+!! (14 \$\psixg3?\$\psi5!\$ 15 \$\psif3\$ \$\psixh5!\$ 16 \$\psi64\$ \$\psi66!\$ 17 \$\psi65\$ \$\psif3\$ \$\psixh5!\$ 16 \$\psi64\$ \$\psi66!\$ 17 \$\psi65\$ \$\psif3\$ \$\psixh5!\$ 16 \$\psi64\$ \$\psi66!\$ 17 \$\psi65\$ \$\psif3\$ \$\psixh5!\$ 16 \$\psi64\$ \$\psi66!\$ 15 \$\psixg3!\$ \$\psixk5\$ 16 \$\psi64\$ \$\psi66!\$ 16 \$\psi64\$ \$\psi66!\$ 17 \$\psi65\$ \$\psif3\$ \$\psi66\$ \$\psi

9...\$f6 10 \$g3! g5 11 h5! =

C) C.D. Analyses

The long-time trainer in Hamburg, C.D.Meyer, is known for his detailed analyses. We are glad that we were allowed to take over the following work of his, first published in *Schach Magazin* 64

(10/96, p.267ff) using the Nunn convention.



14.08 =/ C.D.Meyer - H.Dutschak Bundesliga 1995/6

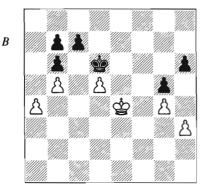
1 a4!?

After 1 h4?!, Black would solve his problems by 1...b5!?.

1...\$d7?!

Instead of staying passive, Black should immediately try to find a path to equality. Probably he could even force it in several ways:

- a) 1...g5!? (this looks convincing) 2 fxg5. Now:
- a1) 2...fxg5?! 3 b5!? (D) and now Black can play:



- a11) 3...\$\psic5?4\$\psic5!\$\psib4(4...\$\psic45\$\$\psic6!\$\psic5 6\$\psid7!+-) 5\$\psic6!\$\psixa4 6\$\$\psid7!+-.
- a12) 3...\$\perp 7? 4 \$\perp 65! \$\perp d7 (4...\$\perp 7.5 \$\perp 65! \$\perp 6 \$\perp 66! +-) 5 \$\perp 65 \$\perp 66 (5...c5 6 dxc6+ bxc6 7 bxc6+! \$\perp xc6 8 \$\perp 6 +-) 6 \$\perp g6! \$\perp xd5 7 \$\perp xh6! \$c5 8 bxc6! bxc6 9 \$\perp xg5!:

a121) 9...b5 10 a5 b4 (10...c5 11 \$\psi f4 +-; 10...\psi c5 11 a6 \$\psi b6 12 \$\psi f4 +-) 11 a6! \pm .

a122) 9...\$\dot\delta e4 10 \delta h5 \dot\delta.

a13) 3...c5 =.

a2) 2...hxg5!?:

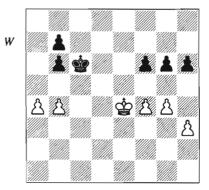
a21) 3 \$\psi f5? \$\psi xd5! 4 \$\psi xf6 c5! \$\pm\$.

a22) 3 a5? bxa5! 4 bxa5 \$\displays c5! 5 \$\displays f5\$ \$\displays xd5! 6 \$\displays xf6 c5! 7 h4 gxh4! ₹.

a23) $3 b 5 = 7! = (3... = 5? 4 = 5! \pm)$.

a24) 3 \$\dd4 \$\deperts e7 =.

b) 1...c5!? may strangely enough also work: 2 dxc6 \(\precent{\p



- b1) 3 g5 hxg5 4 fxg5 (4 f5? \$\display\$ d6 5 fxg6 \$\display\$ e6! -+) 4...f5+! 5 \$\display\$ e5 \$\display\$ d7 6 h4 \$\display\$ e7 =.
 - b2) 3 h4 \(\precede{\psi}\)d6:

b21) 4 h5 gxh5 (4...f5+ 5 \(\preceq e3 \) fxg4 6 hxg6! \(\preceq e6 = \) 5 gxh5! \(\preceq e6! = . \)

b22) 4 \$\dd \$\delta c6 5 \$\delta c4 (5 g5 fxg5 6 fxg5 hxg5! 7 hxg5 \$\delta d6 =; 5 h5 gxh5! 6 gxh5 \$\delta d6 7 \$\delta c4 \$\delta c6 =) and now:

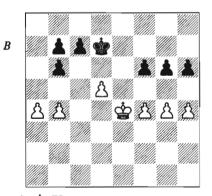
b221) 5...f5? 6 gxf5! gxf5 7 a5 bxa5 (7...h5 8 b5+! \$\precepce c7 9 axb6+ \$\precepce xb6 10

\$\psib4! \$\price 7 11 \$\price 5! +-) 8 bxa5! \$\price 46 (8...h5 9 \$\price b4! +-) 9 \$\price b5! \$\price c7 10 \$\price c5! +-.

b222) 5...\$\d6! 6 \dd6! 5 \ddc7! =; see 11.06.

- c) 1...b5!? is an interesting blocking sacrifice that in the following play also has to be watched out for. White loses his active options on the queenside.
 - c1) 2 axb5:
- c11) 2...g5? 3 fxg5 fxg5 (3...hxg5 4 \$f5 \$\pixd5 5 \$\pixf6 +-) 4 b6!? c6 5 dxc6! \$\pixc6 6 \$\pif5! \$\pixb6 7 \$\pig6! \$\pib5 8 \$\pixh6!\$ \$\pixb4 9 \$\pixg5! b5 10 h4 \$\pic4 11 \$\pif4! b4 12 \$\pice3! (12 g5? b3! 13 g6! b2 14 g7! b1\$\pi 15 g8\$\pi+! \$\pic5! =) 12...\$\pic3 13 h5! b3 14 h6! b2 15 h7! b1\$\pi 16 h8\$\pi+! \$\pic4 c4 17 \$\pid4 4+! \$\pib5 18 \$\pid3 4 \pid3 + \$\pixd3 + 19 \$\pixd3! +-.\$
- c12) 2...b6 3 h4 \$\psid d7 4 h5 gxh5! 5 gxh5! \$\pride e8 6 d6!? cxd6! 7 \$\pride d5\$ \$\pride d7! 8 f5 \$\pride e7! 9 \$\pride c6 d5! 10 \$\pride xd5! \$\pride d7! =.
- c2) 2 a5 g5!? 3 fxg5 hxg5! 4 \$\dd\$d4! c6! 5 dxc6! \$\dd\$xc6! =.

2 h4 (D)

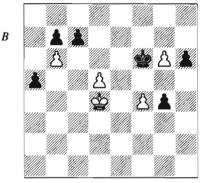


2...**⊈**e7?

Alternatives include:

- a) 2...g5? 3 fxg5 fxg5 4 hxg5 hxg5 5 \$\psickreap\$f5 +--.
 - b) 2...c5? 3 dxc6+!:
- b1) 3...bxc6 4 a5 \$\dispcot c7 5 \$\dispdot d3 c5 (or 5...\dispb7 6 g5 fxg5 7 h5 gxh5 8 f5 h4 9

- \$\preceq\$e2 +--) 6 a6! cxb4 7 a7 \$\preceq\$b7 8 g5 fxg5 9 h5 gxh5 10 f5 +--.
- b2) 3...\$\perpxc6 4 h5! f5+ (4...g5 5 fxg5 fxg5 6 \$\perprecep f5 +--) 5 \$\perprecep e5! and White is winning.
- c) 2...\$\psi d6? allows a powerful pawn breakthrough: 3 h5! (3 \$\psi d4? c6!? 4 dxc6! \$\psi xc6! =, as usual) 3...f5+ (3...g5 4 fxg5! fxg5 5 b5 +-; 3...gxh5 4 gxh5! f5+ 5 \$\psi d4! +-) 4 \$\psi d4! fxg4 5 hxg6! \$\psi e7 6 b5 \$\psi f6 7 a5 bxa5 8 b6! (D).



8...cxb6 9 d6! +-. This idea will show up again and again.

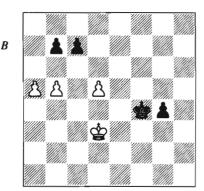
d) 2...b5!! is here an emergency brake: 3 a5 \$\ddot d4 \ddot d4 (4 h5 gxh5 5 gxh5! \$\ddot e7! =) 4...c6! 5 dxc6 \$\ddot xc6! =.

3 cod4?

Certainly not 3 h5?? f5+! 4 \$\div e3\$ (4 gxf5 gxh5! -+) 4...\$\div f6\$ 5 hxg6 \$\div xg6! -+.

It is now the right time for 3 g5!: 3...hxg5 (3...f5+ 4 \pie5! h5 5 b5! \pif7 6 d6! c5 7 bxc6! bxc6 8 d7! \pie7 9 d8\pi+ \pixd8 10 \pif6! c5 11 \pixg6! c4 12 \pih6 c3 13 g6! c2 14 g7! c1\pi 15 g8\pi+! \pi) 4 hxg5! \pif7 (4...fxg5 5 fxg5! \pid6 6 \pid4! \pi-7; play has transposed to the game) 5 \pid4! \pie7 6 gxf6+! \pixf6 7 \pie4! \pif7 8 \pie5! \pie7 9 a5! (9 b5? \pif7! 10 d6 c5 11 bxc6 bxc6! 12 f5 gxf5! 13 \pixf5! c5 =) 9...b5 10 \pid4 \pid6 11 \pie4! \pid7 12 \pid3 \pie7 13 \pie8 \piff 14 \pie4! \pif7 15 \pid4!

\$\psi6 16 \$\psic5! \$\psif5 17 \$\psixb5! \$\pxf4 18 \$\psic4c4! g5 19 b5 g4 20 \$\psid3 (D).\$



20...\$\dot\delta\$ 21 a6 bxa6 22 d6 cxd6 23 bxa6! g3 24 a7! g2 25 a8\$\dot\delta\$+! and White wins.

3...**\$**d6

Or:

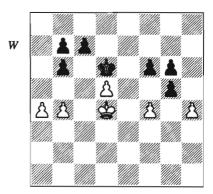
- a) 3...g5? 4 hxg5 hxg5 5 fxg5! fxg5 6 \$\pmese5! \pmedexttt{\$\pmese}\$d7 7 b5 \pmese7 8 \pmesef5! \pmedextt{\$\pmese}\$d6 9 \pmesepxg5! \$\pmesepxd5 10 \pmesef6 +--.
 - b) 3...h5?:
- b1) 4 f5? hxg4! 5 fxg6! b5!! (5...g3? 6 \$\pmes 2\$! f5 7 b5 f4+ 8 \$\pmes f3 \$\pmes f6 9\$ h5 \$\pmes g7 10\$ a5 bxa5 11 b6 cxb6 12 d6 +--) 6 axb5 b6! 7 h5 (7 \$\pmes e4\$ f5+ =) 7...f5 8 h6 \$\pmes f6 9\$ h7 \$\pmes g7! 10 \$\pmes 2\$ g3 11 \$\pmes f3\$ f4! =.
- b2) 4 g5! f5 (4...fxg5 5 fxg5! \$\Delta 66 6\$\Delta 64! \$\Delta 67 7 \Delta 65! \$\Delta 67 ++-;\$ compare the game continuation) 5 \$\Delta 65! \$\Delta 67 6 d6!:
- b21) 6...c6 7 a5 b5 (7...c5 8 bxc5! bxa5 9 \$\preceq\$d5 \$\precep\$e8 10 \$\precep\$c4! \$\precep\$d7 11 \$\precep\$b5! +-) 8 \$\precep\$d4! \$\precep\$e6 9 \$\precep\$c5! \$\precep\$d7 10 \$\precep\$b6! \$\precep\$c8 11 d7++-.
- b22) 6...c5 7 bxc5! bxc5 8 \$\d5!\$ b6 9 \$\dc4c6 +-.
- c) 3...b5!? may be the only sensible alternative to the text-move.

4 g5

After 4 \$\displayset eq again one has to think about the pawn sacrifice 4...b5!?; for example:

a) 5 axb5 b6!:

- a1) 6 h5 f5+ (or also 6...gxh5 =) 7 gxf5 gxh5! 8 f6! \$\psi d7! 9 \$\psi f5! \$\psi e8! 10 \$\psi g6! \$\psi f8! 11 \$\psi xh5! \$\psi f7! 12 \$\psi xh6! \$\psi xh6! (reciprocal zugzwang with White to move) 13 \$\psi h7! \$\psi f7! 14 \$\psi h8 \$\psi f8! =.
 - a2) 6 * d4 * d7 =.
- b) 5 a5 f5+!? 6 gxf5! gxf5+! 7 \$\prec{1}{2}\$xf5! (7 \$\prec{1}{2}\$d4? h5! -+) 7...\$\prec{1}{2}\$xd5! 8 \$\prec{1}{2}\$g6 c5! 9 f5 cxb4! 10 f6 b3! 11 f7 b2! 12 f8\$\prec{1}{2}\$b1\$\prec{1}{2}\$+! 13 \$\prec{1}{2}\$xh6 =.
- 4 h5 gxh5! 5 gxh5! \$\ddot\dot d7\$ seems to be equal as well.
 - 4...hxg5! (D)
 - 4...fxg5? 5 fxg5! hxg5 6 hxg5! +-.



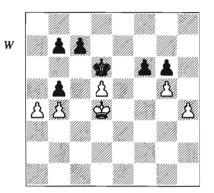
5 hxg5

Explosive tactical possibilities are offered by 5 fxg5, e.g.:

- a1) 9...bxa5 10 bxa5! \$\Delta f7 (10...\$\Delta d7 \\ 11 \Delta f6! +-) 11 d6! +-.
- a2) 9...b5 10 \$\pmedd \pmedd \pmedf (10...\$\pmedd 11\$ \$\pmedd \pmedf \pmedf (10...\$\pmedd 61\$ \$\pmedf \pmedf \pmed
- b) 5...f5? is again punished by a breakthrough: 6 b5! f4 (6...\$e7 7 h5!?

gxh5 8 a5 bxa5 9 b6! cxb6 10 g6! +-) 7 h5! f3 (7...gxh5 8 g6 \$\div e7 9 a5 +-) 8 \$\div e3\$ gxh5 9 a5 bxa5 10 g6 \$\div e7 11 b6 +-.

c) 5...b5!! (D).



This blocking sacrifice now serves as the last resource.

- c1) 6 a5? f5! (6...fxg5? 7 hxg5! +-) 7 h5 gxh5! 8 g6 \$\phie7! 9 \$\phie5\$ h4 wins for Black.
- c2) 6 gxf6? bxa4! 7 b5 b6! 8 \$c4 \$d7! 9 \$b4 \$c8! 10 \$cxa4 \$cf7! 11 \$cccepbe \$cccepts \$cccepts
- c3) 6 axb5! fxg5! 7 hxg5! b6! is a draw.

5...fxg5?

Both players have lost the thread.

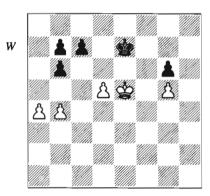
- a) 5...\$e7? 6 gxf6+! \$\prec\$xf6 7 \$\prec\$e4!:
- a1) 7...b5 8 a5! (8 axb5? b6! =) 8...\$\psi f7 9 \psi d4! \psi f6 10 \psi c5! +- leads to line 'a212'.
 - a2) 7...\$f7 8 \$e5! \$e7 9 a5!:
 - a21) 9...b5 10 **\$\d4**:
- a211) 10...\$\psi 611\$\psi 4!\$\psi 712\$\psi 3\$\psi 67 13\$\psi 63\$\psi 614\$\psi 4!\$\psi 715\$\psi 65!\$ \$\psi 7 13\$\psi 63\$\psi 66 14\$\psi 6!\$\psi 65 15\$\psi 65!\$ \$\psi 7 (15...\$\psi 7 16\$\psi 66!\$\psi 65 17\$\psi 66+!\$ bxc6 18\$\psi xg6 c5 19\$\psi 65\$ cxb4 20\$\psi 64!\$ +-) 16\$\psi 66\$ (16\$\psi 44\$\psi 66 17\$\psi c5!\$\psi s another way to win, but is more complicated) 16...c6 17\$\psi 44\$\psi 66 18\$\psi c5!\$+-.
- a212) 10...\$f6 11 \$c5!\$f5 12 \$xb5!\$xf4 13 \$c4 g5 14 b5 g4 15 \$d3 \$f3 16 d6 cxd6 17 a6! g3 18 axb7 g2 19 b8\$

- g1₩ 20 ₩f8+ &g2 21 ₩g7+ &f1 22 ₩xg1++-.
- a22) 9...bxa5 10 bxa5! \$\preceq\$d7 (10...\$\precep\$f7 11 d6! c6 12 \$\precep\$d4! \$\precep\$e6 13 \$\precep\$c5! \$\precep\$d7 14 \$\precep\$b6! \$\precep\$c8 15 d7+! +--) 11 \$\precep\$f6! b5 12 \$\precep\$e5! b4 13 \$\precep\$d4! +--.
- b) 5...f5 is OK: 6 \$\preceq\$c4 (6 b5 \$\preceq\$d7! 7 \$\preceq\$e5 \$\preceq\$e7! =) 6...\$\preceq\$d7 (6...b5+7 axb5! b6! 8 \$\precep\$d4 \$\precep\$d7! 9 \$\precep\$e5 \$\precep\$e7! =) 7 a5 bxa5 8 bxa5! \$\precep\$e7 =.
- c) 5...b5!? is 'last but not least' again the move that draws at once: 6 axb5 (6 f5!? =) 6...fxg5! 7 fxg5! b6! 8 \$\div e4! \div d7! =, more or less as before.

6 fxg5! \$\psi d7

6...c6 7 dxc6! bxc6 8 a5 \(\preceq c7 \) (8...b5 9 a6 +-) 9 \(\preceq e5 +-. \)

7 \$e5! \$e7 (D)



1/2-1/2

Draw? Really? This premature draw is the appropriate end of a fluctuating struggle. The (cautious) reader though will know where the rub was, won't he?

8 a5!

This was suggested by GM Rozentalis in the following analysis. The point is that White marks c5 as a weakness and thus in addition to the pair of corresponding squares e5/e7 adds another one with d4/d6.

But not 8 b5? \$\frac{1}{2}\$f7! 9 d6:

a) 9...c5:

В

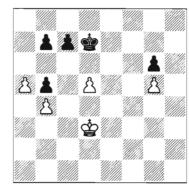
- a1) 10 \$\psid5 \$\psie8! 11 \$\psie4 (11 a5?)\$
 bxa5! 12 \$\psixc5 \$\psid5 (7 -+) 11...\$\psid8 12\$
 \$\psie5! \$\psid7 13 \$\psid5! =.
- a2) 10 bxc6 bxc6! 11 d7! 空e7! 12 d8豐+ 空xd8! 13 空f6! c5 14 空xg6! c4 15 空f7 c3 16 g6! c2 17 g7! c1豐 18 g8豐+! 空c7 =
- b) 9...c6 10 d7 空e7! 11 d8豐+ 空xd8! 12 空f6 c5 13 空xg6! c4 14 空f7 c3 15 g6! c2 16 g7! c1豐 17 g8豐+! 空c7 =.

8...b5

8...bxa5 9 bxa5! \$\precept{\$\phi\$f7 (9...\$\phi\$d7 10 \$\phi\$f6! b5 11 axb6 cxb6 12 \$\phi\$xg6! b5 13 \$\phi\$f5! +-) 10 d6! c6 11 \$\phi\$d4! \$\phi\$e6 12 \$\phi\$c5!, etc., as usual.

After the main move though the black king can only oscillate between e7 and d7, whereupon he is brought into a deadly zugzwang by a mean triangulation.

9 \$\prescript{\$\pr



10...\$e**7 11** \$e**3** \$**d7 12** \$e**4**! \$e**7** 12...\$d6 13 \$d4! +--.

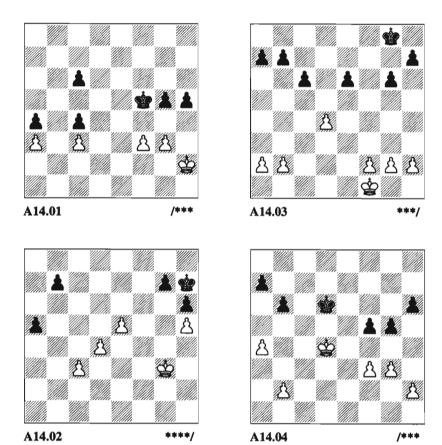
13 \$e5! \$d7

13...**\$**f7 14 **\$**d4 +−.

14 \$6! c5 15 dxc6+ bxc6 16 \$xg6 c5

After, e.g., 17 &f5 cxb4 18 &e4!, the final curtain comes down.

Chapter 14 Exercises



Solutions to Chapter 14 Exercises

A14.01 Teichmann – Blackburne, Berlin 1897

For a better understanding of this important position, which has already been analysed many times (Averbakh, for example, devotes three pages to it (Av 580, p.287ff)), we want to make some preliminary considerations. Black has an extra pawn at c6, and this offers him an important spare tempo. He therefore has to create a position in which this tempo is useful. The pawn formation on the kingside offers the idea ...h4 (or rarely ...g4). Because of the outside passed pawn, White then can't take at h4. If White remains passive, Black takes at g3 and after White takes back he plays ... \$\dots f5\$, which secures the advance to f4. Only then is the spare tempo used to enable a winning encirclement. After the plan is clear, one has to consider the counter f4 when looking for the right moment for the advance ...h4. The analysis shows that ...h4 wins with the following king positions: b\(\Pme{e}5\) vs w\$h3, h2, g1 or f2; b\$e6, f6 or g6 vs w\delta h2, g1 or f2; b\delta f5 vs w\delta g2.

It follows that Black wins in the quickest way if he carries out a triangulation at f6, e6 and e5 because White can only oscillate between h3 and g2.

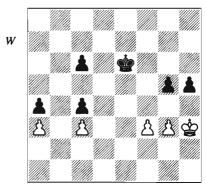
1...**\$**f6

1...h4? 2 g2! =; White meets any king move by 3 f4!.

- 2 \$\pmu\$h3
- 2 **\$**g1?! h4 −+.
- 2 **\$**g2:
- a) 2...\$e5 followed by ...h4.
- b) 2...\$\perpensecond{\perpensecond}\perpensecond{\perpensecond}\perpensecond\perpe
 - c) 2...**\$**g6:
 - c1) 3 \$\dispha h3:

- c11) 3...\$\psi64 g4!? h4! 5 f4!? gxf4! 6
 \$\psixh4 \psic! (6...\$\psig6? 7 g5! \psif5 8 g6! =)
 7 g5 (7 \$\psih3 \psic! 8 \psig2 \psid3! -+)
 7...\$\psic! 4! 8 g6 f3! 9 g7 (9 \$\psig2 3 \psic! -+)
 9...\$\psi! 10 g8\$\psi f1\$\psi! -+.
- c12) 3...\$\polength f5 4 \polength h2 and Black must start from the beginning.
- c2) The actual game finished 3 \$\pm\$h2 h4 4 \$\pm\$h3 hxg3 5 \$\pm\$xg3 \$\pm\$f5! 6 \$\pm\$f2 \$\pm\$f4! 7 \$\pm\$e2 \$\pm\$g3! 8 \$\pm\$e3 c5! 9 \$\pm\$e2 \$\pm\$g2! 0-1.

2...**œ**e6 (D)



3 **⊈**g2

3 \$\delta h2 h4 4 \$\delta g2 (4 f4 gxf4! 5 gxh4 \$\delta f5! 6 \$\delta h3 \$\delta e4! leads to the main variation) 4...hxg3 5 \$\delta h3 \$\delta e5 6 \$\delta xg3 \$\delta f5! 7 \$\delta g2 \$\delta f4! (7...g4? 8 \$\delta g3 =) 8 \$\delta f2 c5! 9 \$\delta e2 \$\delta g3! 10 \$\delta e3 \$\delta h3\$ (the decisive move: White doesn't have the square d3 available) 11 \$\delta f2 \$\delta h2! 12 \$\delta e2 \$\delta g2! 13 \$\delta e3 \$\delta f1! -+.

3 g4 h4! 4 f4 gxf4! 5 \$\preceq\$ xh4 \$\preceq\$e5! -+ (as above).

3...\$e5! 4 \$h3

4 \$\psift f2 \text{ h4 5 f4+ \$\psift f5! 6 fxg5 (6 \$\psift f3 g4+! 7 \$\psift f2 \text{ hxg3+! 8 \$\psix g3 c5! -+) 6...h3! 7 g4+ \$\psix g5! 8 \$\psig g3 \text{ h2! 9 \$\psix k12 \$\psix g4! 10 \$\psig g2 c5 -+. }

4...h4

The advance 4...g4+ only wins with the present king position. If the black king were on f5, White could defend himself with \(\delta g2\).

- a) 5 \$\psi_92 \text{gxf3+!} 6 \psi_xf3 \psi_f5! 7 \psi_e3 \\
 (7 \psi_f2 \psi_e4! 8 \psi_e2 \c5! -+) 7...\psi_g4! 8 \psi_f2 \psi_h3! 9 \psi_f3 \c5! -+.
- b) 5 fxg4 hxg4+! 6 \$\psi\$xg4 \$\psi\$e4! 7 \$\psi\$h5 \$\psi\$d3! 8 g4 \$\psi\$xc3! 9 g5 \$\psi\$b2! -+.

5 f4+

5 gxh4 gxh4! 6 \(\psi g4 c5 \) (6...h3 \(-+ \) 7 f4+ \(\psi e4! \) 8 f5 h3 \(-+ \).

5...gxf4! 6 gxh4 \(\psi e4! 7 \psi g2

7 h5 f3 8 h6 \$\div e3 -+.

7...\$d3! 8 h5

8 **\$**f3 also loses: 8...**\$**xc3! 9 h5 **\$**b3

8...**⊈**e2! -+

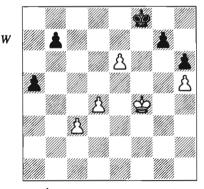
The resulting queen ending is hopeless for White.

A14.02 Vasilev - Briuzgin, USSR 1971

The white king is not in the square of the passed a-pawn, so he has to do everything possible to queen his connected passed pawns. Dr Michael Berndt analysed this position in *Jugendschach* 3/89 in a series about pawn endings, which caused co-author Müller to have a closer look at this position himself (see *Jugendschach* 5/89, p.27ff).

1 d5

1 e6 \$\preceq\$8! 2 \$\preceq\$f4! \$\preceq\$f8 (D):



a) 3 \$\dispersecond{\text{\$\text{\$\text{\$}}}} \dispersecond{\text{\$\text{\$\text{\$}}}} \dispersecond{\text{\$\text{\$\text{\$}}}} \dispersecond{\text{\$\text{\$\text{\$}}}} \dispersecond{\text{\$\text{\$\text{\$\text{\$}}}}} \dispersecond{\text{\$\etitt{\$\exitt{\$\text{\$\etitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\etitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\etitt{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exititt{\$\exititit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\

a1) 3...\$\dot\delta \cap ? 4 c4!! (4 d5? a4! 5 \delta \d3! b5! -+) 4...\$\dot\delta \cap (4...a4 5 \dds \d3! =) and now:

all) 5 \$\d3:

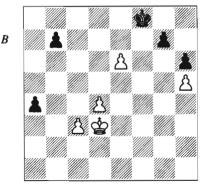
a111) 5...b6 6 \$\psic 3 \$\psic 5 7 \$\psi b3 (7 d5 =; 7 c5? bxc5! 8 dxc5 \$\psic 6 9 \$\psic 4 a4! 10 \$\psi b4 \$\psi d5! 11 \$\psi b5 a3! \$\pi\$) 7...g5 8 hxg6! \$\psi xg6! 9 c5 bxc5! 10 dxc5! \$\psic 6 11 \$\psi a4! \$\psic 6 12 \$\psi xa5! \$\psi d7! 13 \$\psi b6! \$\psi c8! 14 \$\psi c6! h5! =.

a112) 5...g5 6 hxg6! 全f6! 7 d5 全xg6! 8 c5! (8 全d4? a4 9 全c5 a3 10 d6 全f7 11 全b6 全e6! —+) 8...全f7 9 全c4! 全e7 (9...h5 10全b5! a4 11 c6! bxc6+ 12 dxc6! =) 10 全b5! a4 11 全b6 a3 12 d6+ 全d7 13 全xb7! a2 14 c6+! 全xd6! 15 c7! a1豐 16 c8豐! =.

a12) 5 d5+? \$\delta 6! 6 c5+!? \$\delta xc5! 7\$ \$\delta 6 a4! 8 d6 a3! 9 d7 a2! 10 d8 \$\delta a1 \$\delta +!\$ 11 \$\delta 6 \$\delta a2 + (11... \$\delta 6+? 12 \$\delta x f6!\$ gxf6! = is only a draw: either the black king is outside the winning zone of the h-pawn (3.07) or White stalemates himself) 12 \$\delta 6 7 \$\delta 6 2 + 13 \$\delta 6 8 b5 \$\delta .\$

a13) 5 c5!? a4 6 d5+! \$\psi 67 \$\psi 44 a3! 8 \$\psi c3! \$\psi 65 9 d6! \$\psi 66 10 \$\psi 50 \$\text{ b6} 11 \psi 50 \$\text{ b6} 12 \$\psi 50 \$\text{ cxb6} \psi 50 \$\text{ cxb6} \

a2) 3...a4! 4 \$\d3 (D):



a21) 4...a3?? 5 \$\price c2! \$\price 6 d5! \$\price 6 7\$ \$\price 53! +-.

a22) 4...\$e7? 5 c4!! (5 d5? b5! -+) 5...\$xe6 6 \$c3! g5 7 hxg6! \$f6! 8 d5 \$xg6! 9 \$b4! \$f6 (in the following play, White must ensure that the h-pawn does not promote with check) 10 \$xa4! (10 c5? a3 -+) and then:

a221) 10... 全e7 11 全b5 全d7 12 全b6: a2211) 12... h5? 13 全xb7! h4 (after 13... 全d6 14 全b6! h4 15 c5+! +— White either reaches a winning queen ending or promotes with check) 14 c5! h3 15 c6+! 全e7 16 全c7! (16 c7? h2! 17 c8營 h1營! 18 營e6+ 全d8! {Black must keep his king in front of the pawn} 19 營d6+ 全e8 20 全c7 營h7+! 21 全c8 營h3+ =) 16... h2 17 d6+! 全f7 18 d7! h1營 19 d8營! 營h2+ 20 營d6 營a2 21 全d7 營a4 22 營e6+ 全f8 23 營g6 營b5 24 營e4 +—.

a2212) 12...\$\displays c8! 13 c5 h5! 14 d6! h4! 15 d7+! =.

a222) 10...h5 11 \$\dispb5\$ h4 12 \$\dispb6!\$ h3 13 d6! \$\dispbe 6\$ 14 \$\dispc7!\$ =.

a223) 10...\$e5 11 \$b5 h5 12 \$b6! \$d6 13 \$xb7! h4 14 \$b6! =.

a23) 4...b5! 5 d5 \$\phien?! 6 \$\phience\$ 2 (6 c4?! a3! 7 \$\phience\$ 2 bxc4! -+) 6...\$\phience\$ 6! 7 \$\phience\$ 2 g5! (7...g6?? 8 e7 \$\phixen\$ 2 9 hxg6! +-) 8 hxg6 \$\phixen\$ xg6! 9 \$\phia 3 h5! (9...\$\phience\$ 6? 10 \$\phience\$ b4! =) 10 d6 (10 \$\phience\$ b4 a3! 11 \$\phixen\$ xa3 h4! 12 \$\phience\$ b4 h3! -+) 10...\$\phience\$ 6! 11 e7 \$\phience\$ f7! 12 \$\phience\$ b4 and now comes the decisive point: 12...a3!! -+ (after 12...h4?? 13 \$\phixen\$ xb5 a3 14 \$\phience\$ c6! a2 15 \$\phience\$ d7! a1\$\pience\$ 16 e8\$\pience\$ +! +- White would be winning because of the faradvanced d-pawn).

b) 3 \$e5 \$e7 (3...a4 4 \$e46 \$e8! 5 d5 a3! 6 \$e7! a2 7 d6! =) 4 d5! a4! 5 d6+! =.

 $1 \cong f4 = .$

1...\$g8!? 2 \$f4! a4! 3 d6 \$f7

3...\$\psi 68?! 4 \$\psi 65! \$\psi 67! (4...a3? 5 \$\psi 66! +--) 5 e6+ \$\psi e8 =.

4 \$65! a3 5 e6+! \$e8 6 \$g6 a2 7 d7+! \$e7 8 d8營+! \$xd8! 9 \$f7! a1營 10 e7+! \$c7 11 e8營! 營xc3 12 \$g8 營d4 13 \$h7 營f6 14 營g6 ½-½

Because of 14... \wxg6+ 15 \wxg6 b5 16 \wxg7! b4 17 \wxh6! b3 18 \wxg7! b2 19 h6! b1\wxg2 0 h7! (3.07).

A14.03 N.Zilberman – D.Polajzer, Bled 1989

White has the better pawn-structure and the more active king, and this is enough to secure a winning advantage. The analysis follows the game; Black could have improved his play in some places but he could never save the game.

1 \$\dot{e}2 \$\dot{e}7 2 \$\dot{e}3 \$\dot{e}7

2...\$\psi6 3 \psie4 g5 4 g4 a5 5 a4 b6 6 b3 b5 7 f3 \psif7 8 \psie5 \psie7 9 f4 gxf4 10 \psixf4 \psid6 11 \psie4 bxa4 12 bxa4! c5 13 g5 cxd4 14 \psixf4! e5+ 15 \psie4 \psie6 16 h4 \psid6 17 \psif5 \psid5 18 h5! e4 19 g6 +-.

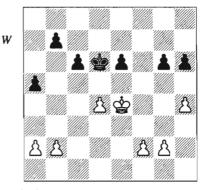
3 h4 &d6 4 &f4 h6

4...\$\d5 5 \psig5! \$\psix xd4 6 \psih6 \psic5 7\$
\$\psixh7 \psif6 (7...\$\psif5 8 f3 e5 9 \psig7 +-) 8\$
\$\psih6 c5 9 g4 b5 10 g5+ \psif7 11 \psih7 winning, since after h5 the g-pawn can't be stopped.

5 **\$e4**

Black now doesn't have enough spare tempi to prevent the white king from penetrating via e5-f6 or d6.

5...a5(D)



6 g4 6 a4 b6 7 g4 b5 8 b3 bxa4 9 bxa4! c5 10 dxc5+ \$\preceq\$xc5 11 \$\preceq\$e5:

- a) 11...\$\psib4 12 f4! \$\prime xa4 13 h5!! (13 f5? exf5! 14 h5 f4! 15 hxg6! =) 13...gxh5 14 f5! exf5 15 gxf5! h4 16 \$\prime f4 +-.
- b) 11...g5 12 h5! \$\Delta b4 13 f4 gxf4 14 \$\Delta xf4 \Delta xa4 15 g5 hxg5+ 16 \$\Delta xg5 +--.

6...a4 7 b3 a3 8 b4 b6 9 f3 c5

10 dxc5+! bxc5 11 b5!

11 bxc5+? \$\preceq\$xc5! 12 \$\preceq\$e5 \$\preceq\$c4! (not 12...g5? 13 h5 \$\preceq\$c4 14 f4 gxf4 15 \$\preceq\$xf4+-) 13 f4 \$\preceq\$c3! 14 \$\preceq\$xe6 \$\preceq\$b2! 15 f5 gxf5! 16 gxf5 \$\preceq\$xa2! 17 f6 \$\preceq\$b3! 18 f7 a2! 19 f8\$\preceq\$ a1\$\preceq\$! =.

11...e5

11...\$\psic 7 12 f4! (12 \$\psid 3? \$\psic 6! 13 \$\psic 4\$ e5 14 h5 g5! 15 \$\psic b3\$ \$\psix b5! 16 \$\psix a3! \$\psic 4! 17 \$\psic b2! \$\psid d3\$ 18 a4! \$\psic 4\$ 19 \$\psia 3! =) 12...\$\psic b6\$ 13 h5! gxh5 14 g5 hxg5 15 fxg5! h4 16 g6! h3 17 \$\psi f3! +--.

11...h5 12 gxh5 gxh5 13 f4 \$\pi\$c7 14 \$\pi\$d3! \$\pi\$b7 15 \$\pi\$c3! \$\pi\$c7 16 \$\pi\$b3! +-.

12 \$\pmu\$d3! \$\pmu\$c7 13 \$\pmu\$c3 \$\pmu\$b7 14 \$\pmu\$b3 1-0

A14.04 A.Chuprov - V.Varlamov, St Petersburg 1994

The white king is ready to penetrate the position, but Black has several ways to prevent that. Which one have you chosen?

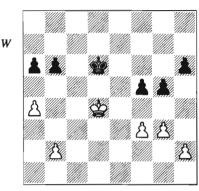
1...h5

Or:

- a) 1...a5!? 2 g4 (2 h4? f4! -+; 2 f4 g4 =) 2...f4 3 h3:
- a1) 3... 全e6?! 4 空e4 (4 空c4 空d6! 5 空b5 空c7! =) 4... 全d6! 5 空f5 空d5 6 空g6! 空d4! 7 空xh6! 空e3! 8 空xg5! 空xf3! 9 空h4! 空e4 10 g5! f3! (10... 空f5? 11 g6+-) 11 g6! f2! 12 g7! f1豐! 13 g8豐! 豐f2+ 14 空h5 豐xb2 ± (Hecht in CBM 41).
 - a2) 3...\cdot\cdot\cdot
 - a21) 4 \$\text{\$\exitt{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\exitt{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\e
- a22) 4 b3?! b5 5 axb5+! \$\pi\$xb5! 6 \$\pi\$c3! \$\pi\$c5 7 \$\pi\$c2! (7 \$\pi\$d3? \$\pi\$b4! 8 \$\pi\$c2 a4! 9 bxa4 \$\pi\$xa4! -+) 7...\$\pi\$b4 8 \$\pi\$b2!=.

a23) $4 \implies c4 = .$

b) 1...a6 (D):



b1) 2 b4 g4 3 f4 (3 fxg4 fxg4! 4 \$\dispersection 4 a5 5 bxa5 bxa5! 6 \$\dispersection f5 \dispersection 6 c3 f5 \dispersection 6 c3 f5 dxg4! =) 3...b5 4 a5! h5! 5 \$\dispersection 6 c3 f5 dxg4! =.

b2) 2 g4:

b21) 2...fxg4?! 3 fxg4! a5:

b211) 4 \$\psic 4 \$\psic 6! 5 h3 \$\psid 6! 6 \$\psi 5\$ \$\psic 7! =. Then 7 \$\psia 6?\$ leads to a disaster: 7...\$\psic 6! 8 \$\psi a 7 \$\psic 5! 9 \$\psi b 7 (9 b3 b5! -+) 9...\$\psib 4! 10 \$\psix xb6 \$\psi xa4! 11 \$\psi a 6 \$\psi b 4 -+.\$

b212) 4 \$\text{ \$\text{\$\tex{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$

b22) 2...\$\dispect{2}\dispect{6} 3 b4 fxg4 4 fxg4! \$\dispect{d}6!\$ 5 \$\dispect{2}\dispect{6} 6 h3 a5 =.

c) 1...g4?! 2 fxg4 (2 f4 a6 3 \$\div c4 \$\div c6\$ =) 2...fxg4! 3 \$\div c4\$ (3 b4 a5 4 bxa5 bxa5! 5 \$\div c4! \$\div c6! 6 \$\div d4! =) 3...\$\div c5 4 \$\div f4\$ \$\div b4 5 \$\div xg4 \$\div xa4 6 \$\div f5 \$\div b3 7 g4 a5 8 \$\div xh6 \$\div xb2 9 g5 a4! 10 g6 a3! 11 g7 a2! 12 g8\$\div a1\$\div ! 13 \$\div g7 + \$\div b1 14 \$\div g6 + \$\div a2 = can't be won with the rook's pawn.

2 h3

2 h4 f4 3 hxg5! fxg3! 4 \$\pm\$e3! h4 5 f4 h3 6 \$\pm\$f3! h2 7 \$\pm\$g2! \$\pm\$e6 8 g6 \$\pm\$f6 9 f5! =.

2...a6(D)

2...a5 3 g4 hxg4 4 hxg4 f4 5 \$\psie4 \$\psic5!\$ 6 \$\psif5 \$\psid4! 7 \$\psixg5 \$\psie3! =.

2...h4:

a) 3 gxh4 gxh4! 4 b4 \(\perpenset{\perpenset} \)e6 5 a5 (5 b5 \(\perpenset{\perpenset} \)d6! 6 f4 \(\perpenset{\perpenset} \)e6! =) 5...\(\perpenset{\perpenset} \)d6 =.

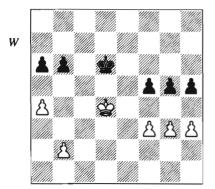
b) 3 g4:

b1) 3...f4? 4 b4 a6 5 \$\pic4! \pic5 (White wins after 5...\pic6?! 6 b5+! axb5+ 7 axb5+! \$\pid6 8 \pid4! \pic6 9 \pic4!) 6 a5! \$\pid6 7 axb6! \pic6:

b11) 8 \$\psib3? \$\psib7!? = (8...\psixb6?! 9 \$\psia4 \psic6 10 \$\psia5 \psib7! 11 b5 axb5! 12 \$\psixb5! \psic7 13 \$\psic5 \psib7! =).

b12) 8 \$\phi4\$ \$\phixb6 9 \$\phi5\$ \$\phi\$ \$\phi\$ \$10 \$\phi5\$ \$\phixb4 11 \$\phixg5!\$ a5 12 \$\phixh4!\$ a4 13 g5! a3 14 g6! a2 15 g7! a1\$\psi\$ 16 g8\$\psi\$! \$\psi\$e1+ 17 \$\phi\$h5! \$\psi\$g3 18 \$\psi\$g4 \$\phi\$.

b2) 3...2e6! 4 b4 a6! 5 a5 bxa5 6 bxa5! fxg4! 7 fxg4! 2e6! =.



3 g4 hxg4 4 hxg4 **\$**e6

4...fxg4? 5 fxg4! a5 6 b3! (6 \$\text{\$\psi}\$e4? \$\psi\$c5! 7 \$\psi\$f5 b5! 8 \$\psi\$xg5 bxa4! 9 \$\psi\$f4 \$\psi\$b4 10 g5 \$\psi\$b3! 11 g6 \$\psi\$xb2! 12 g7 a3! 13 g8\$\psi\$ a2! =) 6...\$\psi\$c6 7 \$\psi\$c5 f7...b5 8 \$\psi\$f5 bxa4 9 bxa4! \$\psi\$c5 10 \$\psi\$xg5! \$\psi\$b4 11 \$\psi\$f4 \$\psi\$xa4 12 g5 +-) 8 \$\psi\$f5 \$\psi\$b4 9 \$\psi\$xg5! \$\psi\$xb3 10 \$\psi\$f5 \$\psi\$xa4 11 g5 +-.

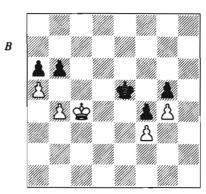
5 b3 f4 6 b4

6 **\$e**4 a5! =.

6...\$d6! 7 \$c4 \$e5

7...\$c6? 8 b5+! axb5+ 9 axb5+! \$d6 10 \$d4! \$e6 11 \$e4! +-.

8 a5 (D)



8...\$d6

8...bxa5 9 bxa5! \$\preceq\$d6! (9...\preceq\$e6? 10 \$\preceq\$c5! \$\preceq\$e5 11 \$\preceq\$b6! +-) 10 \$\preceq\$d4 \$\preceq\$c6! 11 \$\preceq\$e5:

a) 11...\$\psi\$5? 12 \$\psi\$5 \$\psi\$xa5 13 \$\psi\$xg5!\$\$\psi\$b4 14 \$\psi\$xf4! a5 15 \$\psi\$e3!? (Hecht; 15 g5?! +-) 15...\$\psi\$c3 16 g5 +-.

b) 11...\$c5!! 12 \$e4 \$c4! 13 \$f5 \$d4 14 \$xg5 \$e3! =.

9 axb6 &c6! 10 b7 &xb7! 11 b5

11 \$\psi 6\$ \$\psi 6!\$ 12 \$\psi 6\$ \$\psi 5!\$ 13 \$\psi 5\$ \$\psi xb4!\$ 14 \$\psi xg5!\$ a5!\$ 15 \$\psi xf4\$ a4!\$ 16 \$\psi 5!\$ a3!\$ 17 \$\psi 6!\$ a2!\$ 18 \$\psi 7!\$ a1\$\psi!\$ 19 \$\psi \psi!\$ (here Black can only draw against the bishop's pawn if he has an immediate perpetual check) 19...\$\psi 6+(19...\$\psi 64+?!\$ 20 \$\psi 5!\$ \$\psi 65+!\$ 21 \$\psi 64\$ \$\psi 622\$ \$\psi 65+?\$ 20 \$\psi 64\$ \$\psi 64+21\$ \$\psi 65\$ 22 \$\psi 65+...\$ 20 \$\psi 64\$ \$\psi 64+21\$ \$\psi 65\$ 22 \$\psi 65+...\$ 20 \$\psi 64\$ \$\psi 64+21\$ \$\psi 65\$ \$\psi 66\$ 22 \$\psi 65+...\$ 20 \$\psi 64\$ \$\psi 64+21\$ \$\psi 65\$ \$\psi 66\$ 22 \$\psi 65+...\$ 20 \$\psi 64\$ \$\psi 64+21\$ \$\psi 65\$ \$\psi 66\$ 22 \$\psi 65+...\$ 20

11...a5 12 \$\psi c5 \$\psi c7 13 b6+ \$\psi b7! 14 \$\psi b5! a4! 15 \$\psi xa4! \$\psi xb6 16 \$\psi b4 \$\psi c6 17 \$\psi c4 \$\psi d6 18 \$\psi d4 \$\psi e6?

Varlamov, who for a long time has defended himself so accurately, now loses his nerve. He had to prepare a counterattack by 18...\$\precepce2ctect{cl} color="color: 19 \precepce{cl} color="color: 20 \precept{cl} color="color: 10 precept{cl} color="c

19 **\$e4!** +- 1-0

15 Simplifications

Before the pawn ending the gods have placed simplification. Fortunately we have accumulated enough knowledge in the previous chapters to be ready to master this important aspect of the game. Well, apart from the few other endings. Of course we have also struggled with the evaluations, as it has been extremely difficult to keep to the 'Nunn Convention' in this chapter (particularly we distinguish between \pm and \pm but not between \mp = and \pm or \pm and +-). It should also be said that the examples are ordered by typical considerations while the exercises, with the exception of the concluding study, are arranged by the distribution of material.

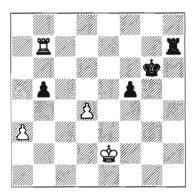
A) Correctly Assessing Various Endgames

How should one make the right choice when you must decide how and whether to simplify with a limited amount of time? Well, pawn endings differ from most piece endings in such a way that you can arrive at a definite result by concrete calculation if there is enough time available. The following example is typical for this (see following diagram):

Alexei Shirov had calculated that he wins after...

1 單xh7!

The assessment of the rook ending after 1 \$\mathbb{L}\$xb5? is 'of course' only a draw: 1...\$\mathbb{L}\$h2 + 2 \$\div e^3\$ (2 \$\div e^1\$ \$\mathbb{L}\$a2 3 \$\mathbb{L}\$b3 f4 4 d5 \$\div f5 5 d6 \$\div e^6 6 \$\mathbb{L}\$d3 \$\div d7 =) 2...\$\mathbb{L}\$h3 + 3 \$\div f4\$ \$\mathbb{L}\$xa3 4 \$\mathbb{L}\$b6+ \$\div f7 5 \$\div xf5\$ \$\mathbb{L}\$a5 + 6 \$\div e^4\$ \$\div e^7\$ and Black has reached the Philidor position. White can't make any



15.01 +/
A.Shirov – V.Ivanchuk
USSR jr Cht (Kramatorsk) 1989

progress because after 7 d5 **Z**a1 8 **2**e5 his king has no shelter against the checks from behind: 8...**Z**e1+ 9 **2**d4 **Z**d1+ 10 **2**e5 **Z**c1+=.

1...\$xh7 2 \$f3 \$g7

2...\$g63\$f4!\$f64d5!\$g65\$e5!

3 \$f4! \$g6 4 \$e5! 1-0

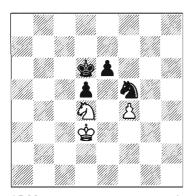
Ivanchuk resigned as after 4... \(\preceq \text{g5 5}\) d5! f4 6 d6! +- the d-pawn goes through with check.

Now two simplifications that lead to a draw (see following diagram):

Like the rook ending in the previous example, the knight ending should also be drawn, but it's easier to calculate the simplification 1 \$\overline{\Omega}\$xf5+ until the end, though one needs the knowledge from Chapter 3 in order to reach a safe haven:

1 9 xf5+!?

1 \$c3?! \$\Delta h4!? \Pi still demands precise play from White (1...\$\Delta xd4 2 \$\Delta xd4!\$



15.02 =/ V.Topalov – A.Antunes Candas 1992

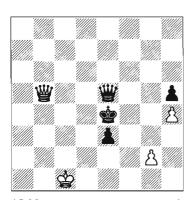
\$c6 3 \$\phie5! \$\phid7 4 f5! \ext{ exf5 5 \$\phixd5! =;} 1...\$\phie7 2 \$\Quad \text{xf5+ exf5! 3 \$\phib4! \$\phid6 4 \$\phib5! =).}

1...exf5! 2 \$\psi d4! \$\psi c6 3 \$\psi e5! \$\psi c5 4\$ \$\psi xf5! d4 5 \$\psi g6!

Because 5 \(\preceq e4\) loses the queen and 5 \(\preceq e6\) is the wrong side.

5...d3 6 f5! d2 7 f6! d1豐 8 f7! 豐d8 9 空g7! 豐g5+ 10 空h8 豐f6+ 11 空g8! 豐g6+ 12 空h8! 豐xf7 ½-½

Stalemate.



15.03 =/ A.Munteanu – D.Moldovan Bucharest 1992

Since one is never sure whether the black passed pawn at e3 isn't too strong in a queen ending, a simplification is a very safe way to a draw:

1 ₩xe5+!?

1 **₩**c4+?!:

a) 1...₩d4:

a2) 2 \(\psi c6+\price e5\) (2...\(\price d3?? 3 \) \(\psi c2#!\)
3 \(\psi b5+\price d5 4 \) \(\psi xd5+!? \) \(\px xd5! 5 \) \(\price d1!\)

a21) 5...\$e4 6 \$e2! \$d4 (6...\$f4 7 \$d3 =) 7 g4! =.

a22) 5...\$\d4 6 \daggered{e}e2! \daggered{e}e4 7 g3! =.

b) 1...\$\sigma f5 2 \text{ \text{\cong}} e2 \text{\cong} c5+ (2...\$\sigma f4?? 3 \text{\cong} f3#!) and White still has to play accurately, e.g. 3 \text{\cong} d1 \text{\cong} d5+ 4 \text{\cong} e1 \text{\cong} f4 5 \text{\cong} f1 \text{\cong} e4 6 g3+!? \text{\cong} xg3 7 \text{\cong} xe3+! \text{\cong} f3+ 8 \text{\cong} xf3+! \text{\cong} xf3! =.

1...\psixe5! 2 \psid1!

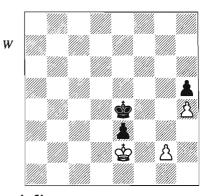
Not 2 \$\preceq\$c2? \$\preceq\$d4! (2...\$\preceq\$e4? 3 \$\preceq\$c3! =) 3 g4!? hxg4! 4 h5 \$\preceq\$e4 5 h6 e2 and Black wins.

2...\shf5

2...\$e4 3 \$e2! \$d4 4 g4! =.

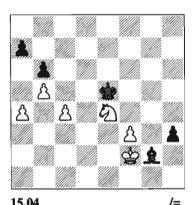
3 ⊈e2 ⊈e4 (D)

3...\$\psi f4 4 \psi d3 =.



4 g3! Not, of course, 4 \$\pm\$e1? \$\pm\$d3! 5 \$\pm\$d1 e2+! 6 \$\pm\$e1 \$\pm\$e3! -+.

4...\$d4 5 g4! hxg4! 6 h5! g3 7 h6! g2 8 h7! = ½-½



15.04 A.Shirov – V.Akopian Oakham jr 1992

In the battle for the tournament victory it seemed as if Alexei Shirov had already missed his winning chances until Akopian surprisingly simplified into a pawn ending:

1... xf3?

Instead he had a study-like way to hold the position:

- a) Not 1...\$\pmedec ee?, which is too passive. 2 c5 bxc5 (2...\$\pmedec d5 3 c6! \$\pmedec ee 4 \Q g3 \pmedec d6 5 \Q f5+ \$\pmedec ee 6 \Q h4 +-) 3 a5! (3 \Q xc5+? \$\pmedec d5 =) 3...\$\pmedec d7 4 \Q xc5+! \$\pmedec c7 (4...\$\pmedec d6 5 b6 axb6 6 a6! +-; 4...\$\pmedec c8 5 \Q d3 \Q h1 6 \Q e1 h2 7 \Q g2! +-) 5 \Q e6+ \$\pmedec d7 (5...\$\pmedec d6 a6 \Q h1 7 b6! h2 8 b7! +-) 6 \Q d4 and now:
- a1) 6...a6 7 b6! \$\psi d6 8 \$\Q\$f5+ \$\psi d7 9\$ \$\Q\$h4 \$\psi c6 10 \$\psi g1 +-.
- a2) 6...单h1 7 ①f5 h2 (7...单g2 8 ②h4 +-; 7...单c7 8 ②h4 h2 9 ②g2! +-) 8 ②g3! 单xf3 9 单xf3! 单d6 10 ②e4+!+-.
 - a3) 6...**\$**d6 7 **€**)f5+!:
- a31) 7...\$\preceq\$c5 8 b6! \$\preceq\$c6 (8...axb6 9 a6! \$\preceq\$c6 10 \$\Q\d6! \$\preceq\$c7 11 a7! +--) 9 \$\Q\d6! a6 10 \$\Q\d6!\$ +--.

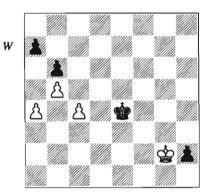
a32) 7...\$\psi d7 8 \Quad h4! \$\psi d6 9 \psi g1! (9 \Quad xg2?? fails to 9...h2! -+) 9...\$\psi c5 10 h6:

a321) 10...\$\textbf{x}f3 11 \(\Delta\textbf{x}f3! \) axb6 12 a6! \$\psice 6 13 \(\Delta\textbf{d}4+! \) \$\psice 7 14 \(\Delta\textbf{b}5+! \) \$\psice b8 15 \$\psice h2 +- (15 a7+? =).

a322) 10...axb6 11 a6! \$\div c6 12 \Dixg2 \text{hxg2 13 f4 +− and White first queens the a-pawn with check and then the f-pawn.}

- b) 1...\$\psi 64! 2 \(\Delta d2! \) \(\text{sh} 1! \) (2...\$\psi 65? 3 c5! \(\text{ bxc5} \) 4 a5! \(\psi d6 \) 5 \(\Delta d + ! \) \(\psi c7 \) 6 \(\Delta xc5! \) \(\Delta h 1 \) 7 \(\Delta e ! \) +-) 3 \(\psi g 1 \) (3 a5?! \(\Delta xc5! \) \(\Delta h 1 \) 7 \(\Delta e ! \) +-) 3 \(\Delta g 1 \) (3 a5?! \(\Delta xc5! \) \(\Delta 5 \) \(\Delta f 1! \) \(\Delta xf 3 \) 6 \(\Delta xh 2! \) \(\Delta d 5 \) \(\Delta 5 \) \(\Delta f 1! \) \(\Delta xf 3 \) 4 \(\Delta xf 3! \) \(\Delta xf 3 \) 5 \(\Delta 5 \) 2 \(\Delta 4 + ! \) 6 \(\Delta 6! \) 2 \(\Delta 6 \) 6 \(\Delta 3 x 6! \) 6 \(\Delta 7 \) 2 \(\Delta 4 + ! \) \(\Delta f 4 \) 6 \(\Delta 6 \) 6 \(\Delta 3 x 6! \) 7 \(\Delta 6 \) 6 \(\Delta 6 x 6 \) 7 \(\Delta 6 \) 6 \(\Delta 6 x 6 \) 9 \(\Delta 6 x 6 \) 6 \(\Delta 6 x 6 \) 7 \(\Delta 6 x 6 \) 6 \(
 - 2 \$\preceq\$xf3! h2 3 \$\preceq\$g2!

 - 3...**⊈**xe4 (D)



Now Alexei Shirov had prepared a surprise for his opponent:

4 c5!! **\$**d5

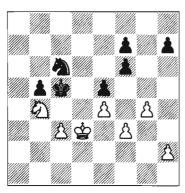
4...bxc5 5 a5! \$\dot{\phi}\$5 (5...c4 6 b6! axb6 7 a6! c3 8 a7! c2 9 a8數+! \$\dot{\phi}\$d3 10 \$\dot{\phi}\$a3+\$\dot{\phi}\$d2 11 \$\dot{\phi}\$b4+ \$\dot{\phi}\$d1 12 \$\dot{\phi}\$d4+! \$\dot{\phi}\$e2 13 \$\dot{\phi}\$c3! \$\dot{\phi}\$d1 14 \$\dot{\phi}\$d3+! \$\dot{\phi}\$c1 15 \$\dot{\phi}\$xh2! b5 16 \$\dot{\phi}\$g2 b4 17 \$\dot{\phi}\$b3! \$\dot{\phi}\$d2 18 \$\dot{\phi}\$b2 \$\dot{\phi}\$d1

5 c6! \$\d6 6 \delta xh2 \delta c7

6...a6 7 \ddg3 axb5 8 axb5! \ddge6 9 c7

7 \$\psig3 \$\psid6 8 \$\psif4 \$\psie6 9 \$\psie4 \$\psid6 1-0\$

The last assessment problem was again proposed by the trainer in Hamburg, Claus Dieter Meyer:



15.05 +/ A.Keller - C.Schubert Bundesliga 1985/6

Surprisingly, only the pawn ending after 1 2xc6 is a win.

The knight ending after 1 \$\Q\$d5?, as played in the game, contains so many traps that one might even lose. 1...b4! (1...f5? 2 gxf5! h6 3 h4 +-) 2 \$\Q\$xf6 (the game ended 2 cxb4+ \$\Q\$xb4+! 3 \$\Q\$xb4 \$\P\$xb4! \frac{1}{2}\$ and now:

a) 2...bxc3? 3 \$\pixc3 \Qd4 4 \Qxh7 \Qxf3 5 h3! \$\pid6 6 \pid3! \$\pie7 7 \pie3! (7 g5? f6!! {Meyer} 8 gxf6+ \$\pif7 9 \pie3 \Qh4 10 \$\pif2 \Qg6! 11 \$\pig3 \Qf4 12 \$\pig4 \pig6! 13 h4 \$\pixh7 14 \$\pif5 \pig8 15 \$\pixc5 \Qg6+ =) 7... \$\Qhat{1} h4 (after 7... \$\Qg1?! the knight has no more squares, so a simplification into a pawn ending is the easiest

way to win: 8 ♠g5 f6 9 �f2! fxg5 10 �xg1! +-) 8 g5! +-.

b) 2...b3!:

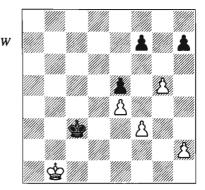
b1) 3 Øxh7?. After this further pawngrab, Black's passed b-pawn becomes too dangerous. 3... Øa5! and now:

b11) 4 \$\d2 \Dc4+ 5 \dc1 \dc4 \d5 6 \Df6 \dc4! -+.

b12) 4 \$\Delta f6 \Delta c4! 5 \Delta d5 \Delta b5! (not 5...\Delta a3? 6 c4! b2 7 \Delta c3! b1\Delta + 8 \Delta xb1! \Delta xb1 9 \Delta 4 + --) 6 h4 \Delta a4! 7 h5 b2 8 \Delta c2 \Delta a3! 9 \Delta b4 \Delta d2! -+.

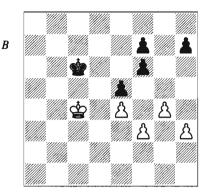
b13) 4 c4!? ②xc4 (4...\$b4? 5 ②f6! b2 6 ②d5+ \$b3 7 ②c3! ③xc4 8 h4 ②a3 9 h5! ③b5 10 ②b1! \$a2! 11 ②d2! ②d4! 12 h6! ②xf3 13 h7! ②xd2! 14 \$a2 2 b1\$ 15 h8\$!\$\frac{1}{2}\$!\$ \$4...b2 5 \$a2 @xc4! 6 @f6 -+ - see 4...@xc4) 5 @f6 b2! 6 \$a2 \$ab4! 7 @d5+ \$a3! 8 @c3 @e3+! 9 \$ad3 @d1 (9...\$b3 10 h4 @g2 11 h5 @e1+ 12 \$ad2 @xf3+! 13 \$ad3 @g5! 14 @b1 \$a2! 15 @c3+ \$a1! 16 h6 b1\$ + 17 @xb1 \$axb1! -+) 10 @b1+ \$a2! 11 @d2 @f2+! (not 11...b1\$ +?? 12 @xb1! \$axb1 13 h4! +-) 12 \$ac2 @h3! 13 \$ad3 @f4+ 14 \$ae3 @e6 15 h4 @c5 16 h5 @b3! is winning for Black.

b2) 3 \(\Delta 65!? \Quad \Delta 5 4 \Delta 62 \Delta 65 5 \Delta 62! \Delta 64!? 6 \Delta xc4! \Delta xc4! 7 g5! b2! 8 \Delta c2! \Delta 1\Delta + 9 \Delta xb1! \Delta xc3! (D).



Now White is only able to hold the pawn ending by $10 \implies a2!! =$.

White can instead win as follows:



9...\$d6

- 9...h6 10 h4! \$\d6 11 \$\d65!:
- a) 11...\$\psid7\$ 12 \$\psic5\$ \$\psic7\$ 13 \$\psid5\$ \$\psid7\$ 14 g5 fxg5 15 hxg5! hxg5 16 \$\psixe5\$! g4 (16...\$\psic7\$ 17 \$\psif5\$! f6 18 e5! fxe5 19 \$\psixe5\$! +-) 17 fxg4! \$\psic7\$ 18 g5 \$\psic8\$ 19 \$\psif6\$! \$\psif8\$ 20 e5! \$\psic8\$ 21 \$\psig7\$! \$\psic7\$ 22 \$\psig8\$ \$\psic8\$ 23 e6 +-.
- b) 11...\$\perp 12 \$\perp c6 \$\perp e6 13 \$\perp c7 \$\perp e7\$
 14 h5! \$\perp e8 15 \$\perp d6! \$\perp d8 16 g5! fxg5 17\$
 \$\perp xe5! \$\perp e7 18 \$\perp f5! \$\perp f8 19 \$\perp f6! \$\perp g8\$
 20 e5! \$\perp f8 21 e6! fxe6 22 \$\perp xe6! +--. The white king has conquered a key square of the h6-pawn.

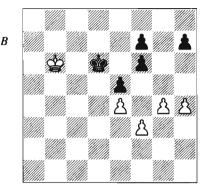
10 \$b5! \$d7 11 \$b6!

(M.Voigt).

- 11 \$\precepter 5? \$\precepter c7!\$ 12 \$\precepter d5\$ \$\precepter d7!\$ 13 \$h4\$ \$\precepter c7!\$ 14 \$\precepter c6\$ (14 \$5?!\$ fxg5!\$ 15 \$hxg5!\$ f6!\$ 16 \$gxf6+!\$ \$\precepter xf6!\$ 17 \$f4=;\$ 14 \$h5\$ \$h6=)\$ 14...\$\precepter c6\$ 25 \$\precepter c6
- a) 16...\$\pie8?! 17\$\pid6\$\pid8 18 g5 fxg5!
 19 \pixe5 (19 h6 \pie8 20 \pixe5 \pie7! 21
 \pif5 f6! 22 e5 fxe5! 23 \pixe5 g4 24 fxg4
 = (6.01C)) 19...\$\pie7! 20 \pif5 f6! 21 e5
 fxe5! 22 \pixg5 \pif7 23 \pif5 \pif8 24 \pif6
 \pig8! 25 \pixe5 \pif7! = (A12.05).
 - b) 16...h6 17 \(\preceq\)c6:
 - b1) 17... \$\delta e8? 18 \$\delta d6! +-.

- b2) 17...\$\psi\$d8?! 18 g5 fxg5! 19 \$\psi\$d6 f5!! 20 exf5 (20 \$\psi\$xe5 fxe4 21 \$\psi\$xe4 \$\psi\$e8 =) 20...e4! 21 fxe4 g4! 22 f6 \$\psi\$e8! 23 e5 g3! 24 e6 g2! 25 f7+! \$\psi\$f8! =.
- b3) 17...\$e6 18 \$c5 \$d7 19 \$d5 \$e7! =.

11...\$d6 12 h4! (D)



12...h6

12...f5 13 exf5 e4 14 fxe4! \$\phi\$e5 15 \$\phi\$c6 \$\phi\$xe4 16 \$\phi\$d6 h5 17 gxh5! \$\phi\$xf5 18 \$\phi\$e7! +-.

12... dd7 and now:

- a) 13 \$\psic\$5 \$\psic\$c7 (13...\$\psic\$e7 14 \$\psic\$d5!\$ \$\psic\$d7 15 g5! +-) 14 \$\psic\$d5 \$\psic\$d7 15 g5! \$\psic\$e7 16 gxf6+! \$\psix\$xf6 17 \$\psic\$d6! +-.
- b) 13 \$\psi b7 \$\psi d8 (13...\$\psi d6 14 \$\psi c8\$ \$\psi c5 15 \$\psi d7 \$\psi d4 16 \$\psi c7! \$\psi c3 17 \$\psi xf6!\$ \$\psi xf3 18 \$\psi f5!! +-) 14 \$\psi c6 \$\psi c8 15 \$\psi d6!\$ \$h6 16 g5 fxg5 17 hxg5! hxg5 18 \$\psi xc5! +-.

13 h5! **₽**d7

13...f5 14 g5! fxe4 15 fxe4! \$\ddot\delta 7 16 gxh6! \$\ddot\delta 8 17 \$\ddot\delta c5 +-.

14 🕸 b7!

After 14 \$\precept{\$\precept{\$c5?}\$ \$\precept{\$\precept{\$e7!}\$ 15 \$\precept{\$\precept{\$d5\$}\$ the black king can hide in the corner: 15...\$\precept{\$\precept{\$\$f8!}\$ 16 \$\precept{\$\$g6\$}\$ \$\precept{\$\$g6\$}\$ 17 \$\precept{\$\$e7\$}\$ \$\precept{\$\$g7!}\$ =.

14...f5!?

14...\$\psi d8 15 \psi c6! \psi e8 16 \psi d6! \psi d8 17 g5! +-.

15 gxf5!

15 exf5? f6! =; 15 g5? fxe4! 16 fxe4 \$\preceperarrow{e}\$e7 17 gxh6! \$\precep\$f8! 18 \$\preceperarrow{e}\$c6 f5! 19 exf5 e4! 20 f6 \$\preceq\$8! 21 \$\preceq\$d7 e3! 22 h7+ \$\preceq\$xh7! 23 f7! e2! 24 f8\$\preceq\$ e1\$\preceq\$! =.

15...f6

16 \$b6! \$d6 17 \$b5! \$d7 18 \$c4 \$c6 19 \$d3 \$c5

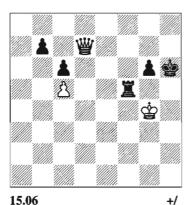
19...\$\psi 6 20 \$\psi 8 = 7 21 f4 \$\psi 7 \text{ (or } 21...\text{ exf4} + 22 \$\psi xf4 \$\psi 6 23 \text{ e5} + fxe5 + 24 \$\psi e4! +-) 22 fxe5 fxe5 23 \$\psi d3 \$\psi f6 24 \$\psi c4 \$\psi g5 25 \$\psi d5 \$\psi xh5 26 f6 +-.

20 \$\psi_3\$ \$\psi_4\$ 21 f4 exf4+ 22 \$\psi_4\$f4 \$\psi_4\$d4 23 \$\psi_5\$f3! \$\psi_4\$3 24 e5! fxe5 25 f6 e4+ 26 \$\psi_5\$f2! \$\psi_4\$2 27 f7! e3+ 28 \$\psi_5\$f3! e2 29 f8\$\psi! e1\$\psi! 30 \$\psi_6\$b4+! +-

30 \wxh6+? \dd3! 31 \wd6+ \dc4! =.

B) Good Technique

The giving back of material in order to simplify into a won pawn ending is standard. Often it's the way to win that costs the least time and energy.



15.06 C.Hansen – J.Piket Wijk aan Zee 1994

Curt Hansen could now have captured the b-pawn with his queen but why complicate, if a queen sacrifice is a clear win?

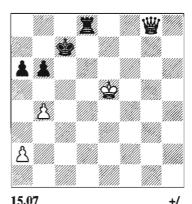
1 wxf5!?

1 徵d2+ \$h7 2 徵h2+ 互h5 (2...\$g7 3 徵b2+ \$g8 4 徵xb7 +--) 3 徵b8 +--; after 3...互xc5?! 4 徵c7+! \$h6 5 徵f4+! \$g7 6 徵d4+! the rook is lost.

1 數xb7? (bad technique!) gives away half a point because by 1... 基xc5 2 豐e7 里f5 3 豐d8 堂h7 4 豐d7+ 堂h6 5 豐xc6 堂g7 (but not 5... 量h5? 6 豐f6! 堂h7 7 豐f7+! 堂h6 8 豐g8! 里g5+ 9 堂f4 里f5+ 10 堂e4 +-) Black can build a fortress: 6 豐d7+ 堂g8 7 豐e7 堂h8 8 豐h4+ 堂g7 = (8... 堂g8?! 9 豐h6 里f7! 10 堂g5 里h7 =).

1...gxf5+ 2 \$\psixf5! \$\psih5 3 \$\psie5 \$\psig5 4\$ \$\psid6! \$\psif5 5 \$\psic7! \$\psie6 6 \$\psixb7! 1-0\$

Even though it worked so well in the previous example, one has to be cautious with simplifications into a pawn ending:



D.Pirrot - C.Gabriel Bad Wörishofen 1996

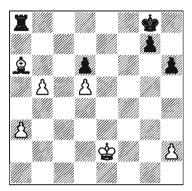
Pirrot wanted to make things easy in this totally won position.

1 ₩xd8+??

However, he was now confronted with an unpleasant surprise. He could have won by 1 數c4+ \$\phi\$b7 2 a4 \$\pm\$c8+ \$\pm\$xc8 4 \$\pm\$d6! +- (but not 4 b5? \$\pm\$d7!! 5 \$\pm\$d5 a5! = or 4 \$\pm\$e6? b5! 5 a5 \$\pm\$c7! 6 \$\pm\$e7 \$\pm\$c6! =).

1... \psi xd8! 2 \psi d6 b5! 3 \psi c6 a5! \frac{1}{2} - \frac{1}{2}

Of course the plan to give back material could be longer-term. The plan to simplify into a pawn ending is demonstrated in the next example:



15.08 /+ Variation from P.Florath - S.Löffler Bundesliga 1995/6

The white passed pawns on the queenside threaten to go through by a4-a5 and b6, so Black has to be careful. But his king arrives just in time to exploit the bishop's fixed position with a beautiful exchange sacrifice:

1...\$f7 2 \$d3

2 \$\displaystyle f3 \displaystyle e7 3 \displaystyle g6 4 a4 \displaystyle d7 5 a5 \textbf{Ixa6} -+.

2...\$e7 3 a4 \$d7 4 a5 \$c7

4... If8?? 5 b6! +-.

5 \$\d4 \$\d8

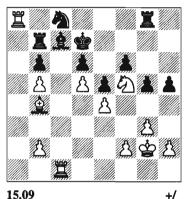
6 **\$e4 X**xa6!? 7 bxa6 g6!

The white king has no way to get in. Black just collects the two a-pawns, and will then deal with the d-pawn. A white attempt on the kingside fails:

8 h4 \$\preceq\$a7 9 h5 g5 10 \$\preceq\$f5 \$\preceq\$xa6 11 \$\preceq\$e6 g4! -+

C) Combination

With tactical clashes it is important to assess the resulting positions quickly and correctly. If in one line a pawn ending results, you can apply your knowledge.



K.Aseev – A.Sidorov

Kstovo 1996

Due to his more active pieces, White is a lot better but it's not so easy to see how to make further progress. Fortunately the simplifying combination wins.

Now White can penetrate with his king on the kingside, though he must be careful with the pawns to prevent Black from closing the position.

6 h4

6 f4 also wins, e.g. 6...\$\perp 7 f5 \$\perp 6 8\$
g4 h4 9 \$\perp f3 \$\perp c5 10 \$\perp 63 \$\perp d6 (10...\$\perp xb5\$
11 \$\perp d3 \$\perp c5 12 \$\perp c3 b5 13 \$\perp b3 +-) 11\$
\$\perp d3 \$\perp c5 12 \$\perp c3 \$\perp d6 13 \$\perp c4 \$\perp c7 14\$

```
      d6+ $\pi xd6 15 h3 $\pi c7 16 $\pi d5! $\pi d7 17$
      7 $\pi h3$

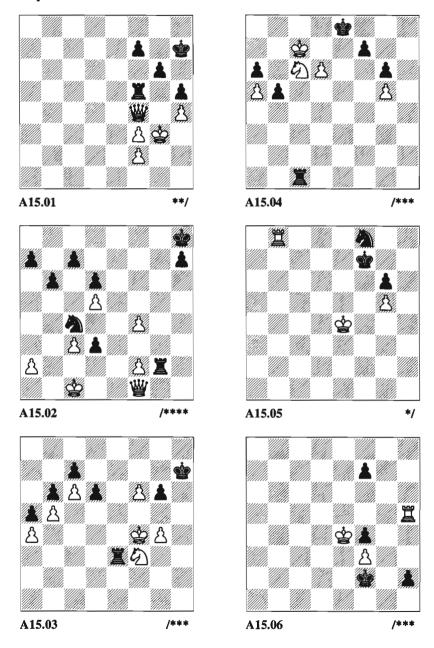
      b3 +-.
      7 $\gx h4 $\pi c7 8 f4 $\pi d6 9 f5 +-.

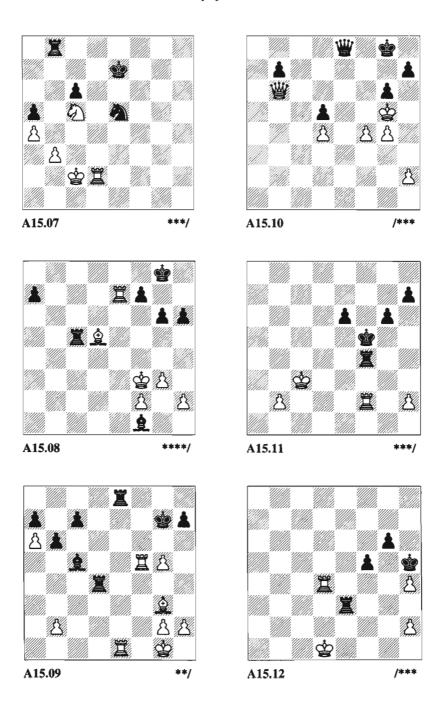
      6 $\gamma 4? h4! =; compare 6.09.
      7...hxg3 1-0

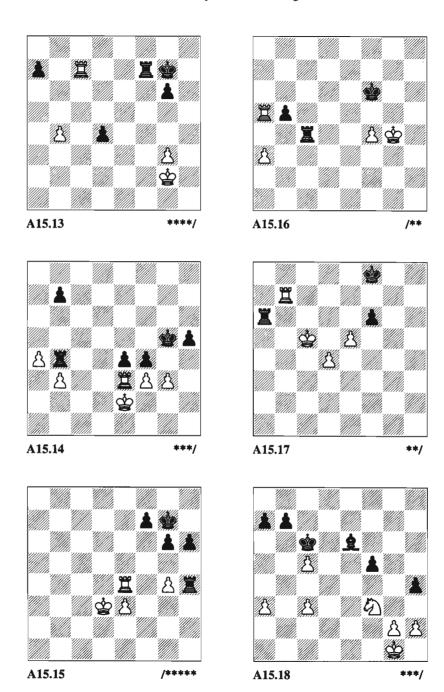
      6...gxh4
      Because after 8 $\pi xg3 $\pi c7 9 $\pi h4 +-

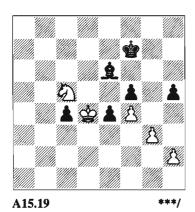
      6...g4 7 f3 f5 8 exf5 +-.
      the white king penetrates successfully.
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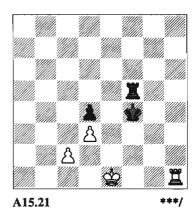
Chapter 15 Exercises

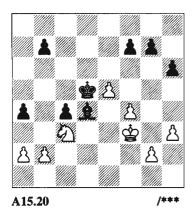












Solutions to Chapter 15 Exercises

A15.01 Ki.Georgiev – K.Ninov, Stara Zagora Z 1990

1 \wxf5!?

White could also bring his king to the centre first, but the immediate simplification is the quickest way to win.

1...gxf5 2 \$f4! \$g6 3 \$e5!

3 \$\pi_63? \$\pi_g7! 4 \$\pi_d4 \$\pi_f6! 5 \$\pi_d5 \ f4! 6\$\$\$ \$\pi_d6 (6 \$\pi_e4 \$\pi_e6! 7 \$\pi_xf4 \$\pi_f6! 8 \$\pi_e4!\$\$\$\$ \$\pi_e6! 9 \ f4 \ f6! 10 \ f5+ \$\pi_d6! 11 \$\pi_d4 \$\pi_c6!\$\$\$ =) 6...\$\pi_f5! 7 \$\pi_e7 \$\pi_g6! =.

3...f4 4 \$\phie4!

One had to see this move before playing 1 #xf5.

1-0

In view of 4...\$f6 (4...\$g7 5 \$f5! f6 6 \$xf4 \$g6 7 \$e4! +-) 5 \$xf4! \$g6 6 \$e5 f6+7 \$e6 \$g7 8 f4 \$g6 9 f5+ \$g7 10 \$e7 +-.

A15.02 N.Liogky - A.David, Cannes 1991

Have you seen the extremely beautiful transformation combination?

1... Ig3!! 2 Wh1

2 營d1 d2+! 3 全c2 單d3! -+ (3... 里e3? 4 營g4! 星e1 5 營c8+! =); 2 fxg3 d2+! 3 全b1 包e3! 4 營e2 d1營+! -+; 2 f5 星e3!? (2... 星f3?! -+) 3 全d1 星e2 -+ (Liogky, Inf 52/(715)).

2...d2+! 3 &c2 \(\bar{a}\)d3! 4 &xd3

After 4 \dd \dag{x}\d5 -+ (Liogky) White is completely tied down.

4...d1\\ + 5 \\ xd1 \\ \D2+! 6 \\ c2 \\ \xd1! 7 \\ xd1

Black now wins easily thanks to his outside passed pawn and queenside majority. With this knowledge it was a little bit easier to see the combination.

7...b5 8 \$\pmeq\$e2 \$\pmeq\$g7 9 \$\pmeq\$f3 \$\pmeq\$f6 10 \$\pmeq\$g4 \$\pmeq\$g6 11 a3 \$\pmeq\$f6 12 f5 a6 13 \$\pmeq\$f4 h5 14 \$\pmeq\$e4 \$\pmeq\$g5 15 f3 \$\pmeq\$f6

15...h4 16 f6 \$\preceq\$xf6 17 \$\preceq\$f4 h3 18 \$\preceq\$g3 \$\preceq\$e5 19 \$\preceq\$xh3 \$\preceq\$xd5 -+.

16 \$f4 a5! 17 \$e4 \$g5 0-1

A15.03 M.Ulybin - S.Temirbaev, Cheliabinsk 1993

So far we have only seen successful simplifications, so it is time for a counter-example:

1... **三**a3!? 2 **②**g5+ **\$**g8! 3 **②**e6 **三**xa4+ 4 **\$**g5 **三**e4 5 **②**xc7 **\$**f7! -+.

Temirbaev underestimates the weakness of the c7-pawn and probably overvalues his protected passed pawn d6 (but it's also possible that he missed 4 f7! during his calculations). However, the protected passed pawn alone doesn't secure the win; as we shall see, it doesn't even insure against loss.

2 \$xf3! g5?

This was probably the idea behind 1... In xf3+ but it only makes things worse.

2...\$\psi_g8 3 g5 \psi_f7 4 \psi_e4 \psi_f8 (4...\$\psi_e6 5 \psi_d4 d5! =) 5 \psi_d5 \psi_f7! =.

3 \$e4 \$g6 4 f7! \$xf7 5 \$f5! \$e7

5...d5 6 \$\overline\$65! (6 \$\overline\$xg5? \$\overline\$6! => 6...d4 7 \$\overline\$xd4! \$\overline\$6 8 \$\overline\$6! \$\overline\$4f6 9 \$\overline\$d5! \$\overline\$f7 10 \$\overline\$65! \$\overline\$g6 11 \$\overline\$6! +--.

6 \$\prescript{\prescri

Temirbaev resigned in view of 9...d5 10 \$\psi f5! \$\psi f7 11 \$\psi e5! \$\psi g6 12 \$\psi xd5! \$\psi f5 13 g6 +-.\$

A15.04 I.Glek - J.Hector, Copenhagen 1995

The far-advanced d-pawn is troublesome for Black. He therefore only has two different basic plans. Either he simplifies immediately into a pawn ending or he breaks through at an appropriate time, whereupon the resulting outside passed pawns tear apart the knight. Have you also assessed the pawn ending as won?

Surprisingly, this only draws. 1... 2d1! would have won:

- a) 2 De5 and now:
- a1) 2...f6? 3 gxf6 b4 4 d7+ (4 f7+ \$\psi f8 5 d7! b3 6 \$\Delta c4! \$\psi xf7 7 \$\Delta d6+! \$\max xd6! 8 \$\psi xd6! =) 4...\$\max xd7+! 5 \$\Delta xd7! b3 6 \$\Psi d6! \$\max f6! 8 \$\Delta c4 g5 9 \$\Psi c5 g4 10 \$\Psi d4! g3 11 \$\Psi e3! =.
- a2) 2...b4! 3 d7+ \(\mathbb{Z}\)xd7 + 4 \(\Omega\)xd7 b3! 5 \(\Omega\)f6+:
- a21) 5...\$\perpersup e7? 6 De4 (6 Dd5+ \perpersup e6 7 \perpersup e6 b2 8 Dc3! f5 9 gxf6! g5 =) 6...b2 7 Dc3 f5 8 gxf6+! \perpersup xf6 9 \perpersup b6 g5 10 \perpersup xa6 =.
- a22) 5...\$f8! 6 De4 b2 7 Dc3 f5! 8 gxf6 g5! −+ (Glek, Inf 63).
- b) 2 \(\tilde{2}\)b8 b4 3 d7+ (3 \(\tilde{2}\)xa6 b3 -+)
 3...\(\tilde{2}\)f8 4 d8\(\tilde{4}\)+ \(\tilde{4}\)xd8! 5 \(\tilde{2}\)xd8 b3 -+.
 - c) 2 \(\sigma\)b4 and then:
- c1) 2...f5? 3 gxf6! g5 4 ②xa6! \(\mathbb{Z} \)c1+ 5 \(\Delta \)b6 \(\Delta \)d7 6 \(\Delta \)b8+ \(\Delta \)xd6! \(\Ta \) a6! \(\Ta \)a1 8 a7 =.
- c2) 2... **基**d2? 3 **\$\pi**c6!! (3 **\Delta**xa6? **\Delta**c2+! -+; see 2... **\Delta**d4) 3... **\Delta**d1 (3... **\Pe**d8? 4 **\Delta**xa6! **\Pe**c8 5 **\Delta**c5! +-) 4 **\Delta**xa6! **\Delta**al! 5 d7+ **\Pe**c7! 6 **\Delta**c5! **\Delta**xa5! 7 d8 **\Pe**+ **\Pe**xd8 8 **\Delta**b7+! =.
- c3) 2... 互d4! 3 ②xa6 互c4+! 4 \$b6 \$d7! 5 ②c5+ \$xd6! 6 ②b7+ \$d7! 7 a6 互c6+! 8 \$xb5 \$c7! 9 a7 互b6+! 10 \$a5 \$xb7! 11 a8豐+ \$xa8! 12 \$xb6 \$b8! -+.
- 2 \$xc6! \$d8! 3 \$d5! \$c8 4 \$d4! \$d7 5 \$c5! b4 6 \$xb4! \$xd6 7 \$c4! \$e6
- 7...\$\preceq 6 8 \preceq d4! \preceq b5 9 \preceq e5! \preceq xa5 10 \preceq f6! \preceq b4 11 \preceq xf7! a5 12 \preceq xg6! is also a draw.

8 &c5 f5

- 8...\$\perp f5?! 9 \$\perp b6 f6! (9...\$\perp xg5? 10 \$\perp xa6! f5 11 \$\perp b5! f4 12 \$\perp c4! +- Glek) 10 gxf6 \$\perp xf6 =.
- 9 gxf6! g5 10 \$\psi d4 \$\psi xf6 11 \$\psi e4 \$\psi e6\$
 12 \$\psi f3! \$\psi d5 13 \$\psi g4! \$\psi c5 14 \$\psi xg5!\$
 \$\psi b5 15 \$\psi f4! \$\frac{1}{2} \frac{1}{2}\$

A15.05 J.P.Koopmann - K.Müller, Hamburg 1985

An easy exercise for a change:

1 \(\mathbb{Z}\xf8+!?\)

Not, of course, 1 \$\delta e 5?? \$\Qd7+! -+. 1 \$\d5 \$\Qd7 + 2 \$\dag{\textbf{b}} b 7 + ! \$\delta g 8 3 \$\dag{\textbf{x}} k 7 ! +-.

1...**\$**xf8 2 **\$**d5!

2 \$\d4? \$\delta e8! =.

2...\$f7 3 \$d6! (2.01) 1-0

A15.06 I.Rogers – A.Shirov, Groningen 1990

White will have to sacrifice his rook for the h-pawn if he wants to make any progress. Thus knowledge about pawn endings is also necessary. Black first has to play ...f6 before he can simplify by ... \(\Delta g2:\)

1...**⊈**g2?

1... 全g3!! 2 單h8 f6 3 單h7 全g2 (3...f5+4 全xf5 全xf3! 5 單xh2 全g3! =) 4 全xf4 h1豐 5 單xh1! 全xh1! 6 全g3 全g1! 7 f4 全f1! 8 全g4 全f2 9 全f5 全g3 =.

2 \$\psixf4! h1 # 3 | xh1! \$\psixh1 4 \$\psig3!! 1-0

The g3-square seems to have a magical attraction for the kings. Shirov resigned in view of 4...\$\perp\$g1 5 f4! \$\perp\$f1 6 f5! (6 \$\perp\$f3? f5! =) 6...\$\perp\$e2 7 \$\perp\$f4! \$\perp\$d3 8 \$\perp\$e5! \$\perp\$e3 9 f6! \$\perp\$f3 10 \$\perp\$d6! +-.

A15.07 J.Gomez Esteban – V.Miguel, Spanish Cht 1993

To see the win of a piece is one thing. Have you also noticed that the knight can't escape and has to be given back at b4?

1 He2!

- 1 \$\preceq\$c3? \$\preceq\$h8 2 \$\preceq\$b7 \$\preceq\$a8 3 \$\preceq\$e6! \$\preceq\$ is much better for White but against best defence it shouldn't win.
- 1...\$d6 2 \(\text{Zxe5!} \) \(\text{Sxe5 3 } \(\text{Q} \) \(\text{d7+!} \) \(\text{\$d6} \) 4 \(\text{Qxb8!} \) \(\text{\$e} \) 7 5 \(\text{Q} \) \(\text{a6+!} \)
 - $5 \triangle xc6? \triangle xc6! = (4.08).$
 - 5...\$b6 6 € b4!
 - $6 \implies d3? \implies xa6! 7 \implies d4 \implies b6 =$.

6...axb4 7 \$\preceq\$d3! 1-0

In view of 7...\$\perpc\$5 8 \$\perpc\$e4! \$\perpc\$d6 9 \$\perpc\$d4! \$\perpc\$c5 + 10 \$\perpc\$c4! \$\perpc\$c6 11 a5! \$\perpc\$d6 12 \$\perpc\$b5! +--.

A15.08 M.Kaminski – I.Glek, Biel 1995

In endings that are as bad as this one, the defender often has to avoid pawn endings. While the outside passed a-pawn doesn't count for so much in a rook ending, it is decisive in a pawn ending. In this position White therefore has to act very accurately to avoid losing:

1 2xf7+?

This offers Black the game on a silver platter. Instead 1 \$\preceq e4!\$ (not 1 \$\preceq a2? \$\preceq a5!\$ \$\preceq\$ or 1 \$\preceq d4?\$ \$\preceq b5!\$ 2 \$\preceq d8+ \$\preceq g7\$ 3 \$\preceq a3!\$ \$\preceq x63+ 3\$ \$\preceq x63!\$ \$\prec

- 1...\$f8! 2 He1
- 2 \(\mathbb{I}\)xa7 \(\mathbb{I}\)f5+! -+.
- 2...**¤**f5+! 3 **∲**e3
- 3... Ie5+! 4 \$\psi d2 Ixe1! 5 \$\psi xe1 \$\psi xf7!\$
 6 \$\psi xf1 \$\psi e6 7 \$\psi e2 \$\psi d5 8 \$\psi d3 g5 9 f3\$
 h5 10 \$\psi e3 a5 11 \$\psi d3 h4 12 \$\psi c3\$

12 f4 gxf4! -+.

12...h3 13 \$\d3 a4 14 \$\d3 a3 15 \$\d3 \d4 16 \$\d3 a3 263! 17 f4 gxf4! 18 gxf4 \$\darksymbol{\pi}xf4! 0-1

White doesn't arrive in time to block Black at the edge of the board.

A15.09 W.Steinitz – J.Zukertort, New Orleans Wch (12) 1886

Steinitz won the game with an elegant combination:

1 Exc5!

1 国xe8?? 国d1#!; 1 堂f1? 国xe1+! 2 堂xe1 is no real alternative; 1 单e5+?? 堂g6! 2 国f6+ 堂xg5! 3 国f2 国dd8 would even win for Black.

1... Xxe1+ 2 &xe1! bxc5 3 &c3! &g6 4 &xd4! cxd4 5 h4!

The white kingside pawns can't be captured while White is always able to break up the queenside with the b-pawn. Not 5 \$\pi f2? \$\pi xg5! 6 \$\pi f3 \$\pi f5! 7 g4+! \$\pi g5 (7...\$\pi 5 8 h4 c5 9 b3! =) 8 \$\pi g3 c5 9 h4+ \$\pi f6 10 b3! =.

5...\$f5 6 \$f2 \$e4

6... \(\pm \) g4 7 g3! c5 8 b3 +-.

7 \$\psie2 c5 8 b3 \$\psie5 9 \$\psid3 \$\psif4 10 b4 \\ 1-0

Zukertort resigned owing to 10...cxb4 11 \psixd4! \psig4 12 g3.

A15.10 J.Howell - S.Zakić, Vienna 1989

The active white king is placed so unfortunately that he himself falls victim in a beautiful way:

- 1...\\e7+! 2 \\f6
- 2 \$\document{\psi}h6?! \$\document{\psi}h4#.
- 2...h6+!!
- 2...\subset xf6+? 3 \subset xf6! b5 (3...\subset f8 4 \subset e5 +-) 4 \subset e7! b4 5 f5! +-.
- 3 \$\text{\$\pi\$xg6 \$\psi\$h7+! 4 \$\psi\$h5 \$\psi\$f7+! 5 \$\psi\$xf7+ \$\psi\$xf7! 6 \$\psi\$xh6 \$\psi\$g8! 0-1

Howell resigned because the b-pawn can't be stopped, e.g. 7 \$\disp[6]\$ (7 f5 b5! 8 f6 b4! 9 g5 b3! 10 g6 b2! -+ Zakić, Inf 48) 7...b5! 8 \$\disp[6]\$ f6 \$\disp[6]\$ f8! 9 \$\disp[6]\$ 6 b4! 10 \$\disp[6]\$ h7 b3! -+.

A15.11 K.Müller - A.Khasin, Pula 1989

The transition into a pawn ending is sufficient for a draw, while the rook ending is very risky.

- 1 \(\mathbb{Z}\)xf4+!?
- 1 **E**e2?! e5 **∓**.
- 1...\precepxf4!

But now accuracy is necessary because after 2 b4? the white king doesn't arrive in time.

2 cc4

The game saw instead 2 b4? \(\pm e5! :

a) Play concluded 3 b5 \(\psi d6 \) (3...\(\psi d5 \)? 4 b6 \(\psi c6 5 \(\psi d4 \)! \(\psi xb6 6 \(\psi c5 \)! =) 4 \(\psi d4 \)

g5! 5 b6 h5! 6 b7 \$\preceq\$c7! 7 \$\preceq\$e5 h4! 8 \$\preceq\$e4 \$\preceq\$xb7 9 \$\preceq\$f3 e5 -+ 0-1.

- b) 3 \$\psic4 \psid6! 4 \$\psic5 \psic7! 5 \$\psia6\$
 \$\psib8! 6 \$\psib6 \psic5! 7 \$\psic6 \psi 4 8 \$\psid6 \psib6! 9\$
 \$\psic5 \psi4! 10 \$\psif4 \psi3! 11 \psixg3 \psi3! 12 \$\psif3 \psi5! -+.
 - $2 \triangleq d4 e5 + 3 \triangleq d3! = .$
 - 2...e5
- 2...\$\perpensormath{\perpensormath{2}\text{e}}\$ 2...\$\perpensormath{\perpensormath{2}\text{e}}\$ 2...\$\perpensormath{\perpensormath{2}\text{e}}\$ 2...\$\perpensormath{2}\text{e}}\$ 2...\$\perpensormath{2
 - 3 \$d3!
- 3 b4? e4 4 b5 e3 5 b6 e2 6 b7 e1 ₩ 7 b8 ₩ + ₩e5 ∓; 3 �c3? �e3! 4 b4 e4! ∓.
 - 3...\$f3 4 \$d2! \$e4
- 4...e4 5 \$\displaye1! \$\displaye3 6 b4 \$\displayd4 7 \$\displaye4\$ \displaye3 \$\displayse4 = .
- 5 b4 \$\psi d4 6 b5 \$\psi c5 7 \$\psi d3 \$\psi xb5 8 \$\psi e4! =

A15.12 G.Timoshchenko – T.Vakhidov, Tashkent 1987

Strangely enough 1... **E**e4? isn't the right way; Black should stay in the rook ending. It seems that not all rook endings are drawn!

1...Xh3!?

The game actually finished 1... \mathbb{Z} e4? 2 \mathbb{Z} xe4! (White has to exchange; otherwise the situation is even more unfavourable than after 1... \mathbb{Z} h3) 2...fxe4! 3 \mathbb{Z} e2 \mathbb{Z} g4 (3... \mathbb{Z} xh4 4 \mathbb{Z} e3! \mathbb{Z} h3 5 \mathbb{Z} xe4! \mathbb{Z} xh2 6 \mathbb{Z} f4 =) 4 \mathbb{Z} e3! \mathbb{Z} f5 5 \mathbb{Z} e2 \mathbb{Z} f4 6 \mathbb{Z} f2! e3+7 \mathbb{Z} e2 \mathbb{Z} e4 8 \mathbb{Z} e1! \mathbb{Z} f5 9 \mathbb{Z} e2 \mathbb{Z} f4 10 \mathbb{Z} e1! \mathbb{Z} f3 11 \mathbb{Z} f1! e2+ 12 \mathbb{Z} e1! \mathbb{Z} - \mathbb{Z} 2 (in view of 12... \mathbb{Z} e3 13 h5 gxh5! 14 h3! =).

- 2 Hd2
- 2 Id8 Ixh2 3 Ih8+ \$\psig4 4 Ih6 Ixh4 5 Ixg6+ \$\psif3! -+.
 - 2...\$xh4 3 \$e1
- 3 If2 Ia3 -+; 3 Ig2 g5 4 If2 f4 5 \$\psi e1 Ia3 6 \psi f1 \psi h3 -+.
 - 3...耳f3 4 ⊈e2 ⊈g4 5 耳a2
 - 5 Idl Ia3:
- a) 6 \$\psi f2 \$\psi h3 7 \$\psi g1 g5 8 \$\psi d5 \$\psi a1 + 9 \$\psi f2 \$\psi a2 + 10 \$\psi f1 g4 11 \$\psi xf5 \$\psi xh2!\$

- -+ (11...**I**xh2? 12 **\$**g1! **I**a2 13 **I**f1! is only a draw).
- b) 6 \(\bar{g} \) 1+ \(\phi h 5! \) 7 \(\phi f 2 \) \(\bar{a} 2 + 8 \) \(\phi g 3 \) g5 \(-+ \).
- 5...f4 6 Ib2 g5 7 Ia2 Ib3 8 \psif2 \psih3 9 Ia5
- 9 **Z**a8 **\$\pi**xh2 10 **Z**h8+ **Z**h3 11 **Z**g8 **Z**h5! 12 **\$\pi**3 **\$\pi**h3! 13 **Z**g7 **\$\pi**h4! 14 **Z**a7 **Z**h6 15 **Z**a1 g4+ 16 **\$\pi**xf4 **Z**f6+! -+.
 - 9... Ib2+ 10 If3 Ig2 -+

A15.13 O.Renet – H.Olafsson, Reykjavik (France-Iceland) 1993

White shouldn't exchange rooks because an unpleasant surprise awaits him in the pawn ending:

- 1 Exf7+?
- 1 Ic2? d3 2 Id2 Id7! 3 \$\psi f3 \$\psi f6 4 \$\psi e4 \$\psi g5 -+.
- 1 單c6!? 單b7 (1...單d7 2 全f2 d3 3 全e1! 〒) 2 全f3 單xb4 3 單c7+! 全f6 4 單xa7! 單b6!? (4...單b3+5 全f4=)5 單a5 〒.
 - 1 **□**c5 章.
 - 1...\$xf7! 2 \$f3 \$f6 3 \$e4 g5!!
 - 3...\$g5? 4 \$xd4! \$g4 5 \$e5! =.
 - 4 b5
- 4 g4 d3! 5 \$\preceq\$ xd3 \$\preceq\$e5! 6 \$\preceq\$e3 a6! wins for Black.
 - 4...d3! 5 \$\psi xd3 \$\psi e5!
- 5...\$\psi f5? 6 \psi e3! \psi g4 7 \psi f2! \psi h3 8 \psi f3! \psi h2! =.

6 \$\preceq\$ 6 \$\pr

A15.14 G.Bersutzki – F.Lamprecht, *Biel* 1994

White would lose in a pawn ending; thus the rook has to stay:

1 gxf4+!

The game went 1 **Exe4**? **Exe4+!** 2 fxe4 fxg3! 3 \$\pi f3 \$\pi h4! 4 \$\pi g2 (4 e5 \$\pi h3! 5 e6 g2! -+) 4...\$\pi g4! 5 e5 h4 6 e6 h3+! 7 \$\pi g1 \$\pi f3! 8 e7 h2+! 9 \$\pi h1 \$\pi f2\$ and White resigned because after 10 e8\$\pi\$

g2+! 11 \$\pixh2 g1\$\pi+! 12 \$\pih3\$ \$\pig3#! it's all over.

1 **Z**c3? fxg3! 2 fxe4 **\$**f4 3 **Z**f3+ **\$**g4! 4 **Z**e3 h4 5 e5 g2 6 **\$**f2 h3! 7 **\$**g1 **Z**f4 8 **\$**h2 **Z**f1 -+.

1...\$xf4 2 \(\mathbb{Z}\)c3

2 Ixe4+? Ixe4+! 3 fxe4 \$xe4! -+; 2 \$f2? Id4! 3 \$e2 (3 Ixe4+ Ixe4! 4 fxe4 \$xe4! -+; 3 Ie2 Id2 4 Ixd2 e3+! 5 \$e2 exd2! 6 \$xd2 \$xf3! -+) 3...h4! 4 Ic3 Id3! 5 Ic7 Ie3+! 6 \$d2 Ixf3! 7 Ixb7 h3 8 a5 h2 9 Ih7 Ixb3 -+.

2...h4 3 fxe4 **I**xe4+ 4 **\$**f2 **\$g4** 5 **I**c7 is a draw.

A15.15 B.Gulko - N.Short, Riga Tal mem 1995

I play ...h5 and Boris resigns – in such or a similar way Nigel Short might have thought of the further procedure. How could he anticipate that this pawn ending is a kind of study concerning corresponding squares? Instead he could have exploited White's pawn weaknesses in a rook ending.

1...h5?

1...\$\psi62 \psif4+ \psig7 (2...\$\psi5? 3 \psixf7! \$\psixg4 4 e4 = Timman in NIC 4/95) 3 \$\psie2?! h5 -+.

2 gxh5! Xxe4

2...****xh5!? ∓.

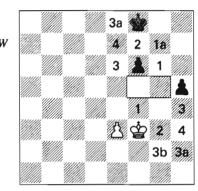
3 \$xe4! gxh5 4 \$f5! f6 5 \$f4!

5 e4? \$\psi f7! 6 e5 h4! 7 \$\psi g4 fxe5! 8 \$\psi xh4 \$\psi e6! 9 \$\psi g3 \$\psi d5! 10 \$\psi f3 \$\psi d4! 11 \$\psi e2 \$\psi e4! wins for Black (Hecht in \$CBM 47).

5...화f7 6 화g3! 화g6 7 화f4! 화g7 8 화f3!

8 \$f5? \$f7 9 \$f4 \$e6! 10 \$g3 \$f5! 11 \$h4 \$g6! -+ (Hecht).

8...\dot{8}(D)



(f3=1a; f8=3b)

Here the corresponding squares are g6=f4=1, f7=g3=2 and e6=h4=3. Going further back we have e7=h3=4, e8=h2=3a, f8=g2=3b and g7=f3=1a. But one always has to consider a counter-attack towards the h-pawn and the advance e4 because of which, for example, the position with kings at f4 and g6 is not reciprocal zugzwang (compare Constantini ECE 1007).

9 **2**g2!!

Not 9 \$\psig3? \$\psif7! 10 \$\psif3\$ \$\phie6! 11 \$\psif4\$ \$\phid5! 12 \$\phif5\$ h4 13 \$\phig4\$ \$\phie4! -+ (Hecht).

9...\$\psi_8 10 \$\psi_12 \$\psi_8 11 \$\psi_2!\$ \$\psi_6 7 12 \$\psi_8 13 \$\psi_9 6 14 \$\psi_6 14 \$\psi_6 15 \$\psi_

16...g7 17 e5! =. 17 xf6! h4 = 1/2-1/2

A15.16 J.Speelman – M.Chandler, Hastings 1988/9

The most important drawn position in rook endings stems from Philidor. Knowledge of it and Bähr's Rule make the solution obvious:

1...**Za4!?**

Though 1... \(\bar{\text{L}} \cap 3?! 2 \bar{\text{L}} \alpha 6 + \bar{\text{L}} \bar{\text{L}} 7 3 \bar{\text{L}} \bar{\text{L}} 5 \\
\delta \text{should hold the position, it's in no way comfortable, e.g. 3... \(\bar{\text{L}} \bar{\text{L}} 3 \delta \) 4 \\delta f5 \(\bar{\text{L}} \cap 3 \delta \bar{\text{L}} 4 \) 4 \\delta f5 \(\bar{\text{L}} \cap 3 \delta \bar{\text{L}} 4 \) 4 \\delta f5 \(\bar{\text{L}} \cap 3 \delta \bar{\text{L}} 4 \) 4 \\delta f5 \(\bar{\text{L}} \cap 3 \delta \bar{\text{L}} 4 \) 4 \\delta f5 \(\bar{\text{L}} \cap 3 \delta \bar{\text{L}} 4 \) 4 \\delta f6 \(\bar{\text{L}} \bar{\text{L}} 3 \delta \bar{\text{L}} 4 \) 4 \\delta f6 \(\bar{\text{L}} \bar{\text{L}} 3 \delta \bar{\text{L}} 4 \) 4 \\delta f6 \(\bar{\text{L}} \bar{\text{L}} 4 \delta \delt

1...b4? 2 **3**a6+ **2**e7 3 **3**a4 +−.

2 **Exa4**

2...bxa4! 3 \$f3 \$f5 4 \$e3 \$f6 5 \$d4 \$f5! 6 \$c5 \$xf4! 7 \$b5 \$e5 8 \$xa4 \$d6 \(\frac{1}{2}\)-\(\frac{1}{2}\)

A15.17 F.Gheorghiu - C.Lutz, Biel 1990

The fork 1 \$\mathbb{\pmathba\pmathbb{\pmathbb{\pmathbb{\pmathbb{\pmathbb{\pmathbb{\p

1...**X**xb6

1...**¤**a5+ 2 **\$**b4! +−.

2 2xb6! fxe5

2...f5 3 d5 +--.

3 d5! +- 1-0

A15.18 C.Wilhelmi – R.Vogel, 2nd Bundesliga 1996

is weak and the bishop is better for play on both wings. Therefore, White has very good reason first of all to calculate the pawn ending.

1 € d4+!

Since it is won, fortunately the complications after 1 ②xh4? = don't have to be examined in more detail; there White is even in danger of losing.

1...\$\psi d5 2 \(\tilde{\Delta} \) xe6! \$\psi \xe6 3 \psi f2! \$\psi d5 4 \\
g3? (D)

4 \(\Price f3!? \) (Wilhelmi) 4...\(\Price xc5 \) (4...\(\Price 5 \) \(\Price e3 \) \(\Price 6 \) \(\Price d4 \) +-) and now:

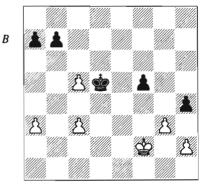
a) 5 \$\psif4 \$\psic4 6 g3! (6 \$\psixf5? \$\psixc3 7 g4 hxg3! 8 hxg3! b5 9 g4 a5! =) 6...hxg3 (6...h3 7 \$\psixf5! +-) 7 \$\psixg3!:

a1) 7... 全d5 8 全f4 (8 h4? 全e4! 9 h5 全e3! 10 h6 f4+! 11 全g4 f3! 12 h7 f2! 13 h8幽 f1幽! =) 8...全e6 9 c4 b6 10 h4 全f6 11 h5 +-.

a2) 7...\$\preceq\$xc3 8 h4 \$\preceq\$d4 9 \$\preceq\$f4! +-.

b) 5 g3 hxg3 (5...h3 6 \$\frac{1}{2}\$f4 \$\frac{1}{2}\$c4 7 \$\frac{1}{2}\$xf5! \$\frac{1}{2}\$xc3 8 g4 +-) 6 \$\frac{1}{2}\$xg3 (6 h4 +-) 6...\$\frac{1}{2}\$c4 (6...\$\frac{1}{2}\$d5 7 \$\frac{1}{2}\$f4 +-) 7 \$\frac{1}{2}\$f4 +-.

4 \$\preceq\$e3 \$\preceq\$xc5 5 \$\precep\$f4! b5 6 g3! hxg3 7 \$\precep\$xg3! +-.



4...hxg3+! 5 \$xg3 \$e4! 6 \$f2

6 h4 \$e3! 7 \$g2 (7 h5 f4+ =) 7...\$e2 (7...f4? 8 \$f1 +-; 7...\$f4 8 \$h3! \$e3 9 h5 f4! 10 h6 f3! 11 h7 f2! 12 h8 \$f1 \$\bar{w}\$+! =) 8 \$g3 \$e3! =.

6...\$f4 7 a4 a5

One can easily prove that White can't start any attempts to win because the black king is too strong.

8 \preceq e2

8 h3 \$\pmeq\$e4! 9 c4 (9 h4?! \$\pmeq\$f4! 10 h5! \$\pmeq\$5! 11 \$\pmeq\$f3 \$\pmeq\$xh5! 12 \$\pmeq\$f4! \$\pmeq\$g6! 13 \$\pmeq\$e5! \$\pmeq\$g5! 14 \$\pmeq\$d6! f4! 15 \$\pmeq\$c7! f3! 16 \$\pmeq\$xb7! f2! 17 c6! f1\$\pmeq\$! 18 c7! =) 9...\$\pmeq\$f4! 10 \$\pmeq\$g \$\pmeq\$e3 11 h4 \$\pmeq\$e2 =.

8... \Rightarrow e4! 9 \Rightarrow f2 \Rightarrow f4! 10 \Rightarrow e2 = $\frac{1}{2}$ - $\frac{1}{2}$

A15.19 V.Dragiev – E.Ermenkov, Bulgarian Ch. 1995

All black pawns are fixed on light squares, so the knight can draw despite the minus pawn. However, due to the aggressive pawn-structure on the kingside one has to proceed carefully:

1 h4!?

The game actually concluded 1 ②xe6? \$\pixe6! 2 \pixc4 (2 h3 h4 3 gxh4 \pif7 4 \$\pixc4 \pig6! -+; 2 h4 e3 3 \pixe3 \pid5 -+) 2...h4!! 3 \pid4 h3 4 \pic4 (4 g4 fxg4! 5 \$\pixe4 g3 6 \pif3 gxh2! -+) 4...\pid7 5 \pic3 \pic7 0-1.

1...**⊈e**7

- 1... ♠c8?! 2 ♠xc4 = only causes problems for Black.
- 2 ②xe6 \$xe6! 3 \$xc4! \$d6 4 \$d4! \$d7 5 \$\phi e3 \$\phi e6 6 \$\phi d4! \$\phi d6 7 \$\phi e4! \$\phi e6 8 \$\phi d4! \$\phi b5 9 \$\phi e4! \$\phi e6 11 \$\phi d4\$

 $11 \text{ f5} \ \phi \delta \delta 6 12 \ \phi \delta 4! = .$

11...\$\psi d6 12 \$\psi e4 \$\psi c5 13 \$\psi e3 \$\psi d5 \]
14 \$\psi d3! =

A15.20 A.Moise - F.Lamprecht, Dresden 1997

Of course Black would like to play 1... 2xc3 because the alternatives don't seem to be very promising. But how can one then prevent the white king from decisively getting to e4? The solution is to get a pawn to g4 in order to take away the access to the f3-square. Without this finesse the pawn ending would be hopeless:

- 1...\(\text{\psi}\) xc3!?
- 1...\$\delta c6? 2\$\delta e4 +-.
- 1...**\$**c5?!:
- a) 2 \$\psi e4 f5+!? (2...a3? 3 \$\infty a4+! \$\psi b5 4 \$\psi xd4! \$\psi xa4 5 bxa3! +-) 3 \$\psi xf5 (3 exf6?! \$\psi xf6! 4 \$\infty xa4+! \$\psi b4! \$\overline{\pi}\$ 3...a3! 4 \$\infty e4+! \$\psi d5! (4...\$\psi c6? 5 bxa3! c3 6 \$\infty xc3 \$\psi xc3 7 \$\psi g6! +-) 5 \$\infty c3+! = (5 bxa3? g6+! 6 \$\psi xg6 \$\psi xe4! 7 e6 \$\psi c5! 8 f5 \$\psi c5! -+).
 - b) 2 ②xa4+ **\$**b4!:
- b2) 3 ②c3!? ②xc3! 4 bxc3+! ③xc3! 5 f5! ⑤b2! 6 e6 fxe6! 7 fxe6! c3! 8 e7 c2! 9 e8 ⑤ c1 ⑥ !! 10 ⑥ b5+ ⑤xa2 11 ⑥ xb7 並.

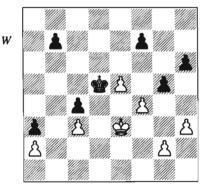
2 bxc3! a3

2...g5!? 3 a3? (3 g3! =) 3...gxf4! 4 \$\prime xf4 b5 5 g4 b4! 6 cxb4 c3! 7 \$\prime c3\$ \$\prime c4!\$ -+.

3 **⇔e**3

3 h4 g5 4 g3 =.

3...g5(D)



4 g3!

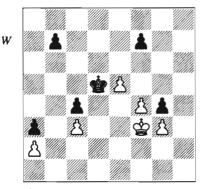
4 全f3? gxf4! 5 全xf4 b5 6 g4 b4! 7 cxb4 全d4! 8 全f3 全d3! 9 b5 c3! 10 b6 c2! 11 b7 c1豐! 12 b8豐 豐e3+ 13 全g2 豐e2+ 14 全g3 豐xa2! 干.

4...h5 5 \$\div f3

5 fxg5? xe5!:

- a) 6 \$\psi f3 \$\psi f5 7 \text{ h4 b6! 8 \$\psi f2 (8 \$\psi e3)}\$\$
 \$\psi g4! 9 \$\psi f2 \text{ b5! } -+) 8...\$\psi e4! 9 \$\psi e2 \text{ b5!}\$\$
 10 g4 \text{ hxg4! } 11 \text{ h5 \$\psi f5! } 12 \text{ h6 \$\psi g6! } -+.
- b) 6 g4 hxg4 7 hxg4 b5 8 \$\psi\$f3 \$\psi\$d5 9 \$\psi\$e3 \$\psi\$c5! 10 \$\psi\$e4 b4! 11 cxb4+ \$\psi\$xb4 12 \$\psi\$d4 \$\psi\$b5! 13 \$\psi\$e3 \$\psi\$a5 14 \$\psi\$e4 \$\psi\$a4 \$15 \$\psi\$e3 \$\psi\$b5! 16 \$\psi\$d4 \$\psi\$b4! 17 g6 fxg6! 18 g5 \$\psi\$b5! 19 \$\psi\$e3 \$\psi\$a5 -+.

5...g4+ 6 hxg4! hxg4+! (D)



7 \$e3

7 \$\pm\xg4? \$\pm\xeq4! 8 \$\pm\yeq5 \quad \text{55}! 9 \$\pm\yeq6 \quad \text{64!} 8 \$\pm\yeq5 \quad \text{55}! 9 \$\pm\yeq6 \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{64!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{64!} \quad \text{64!} \quad \quad \text{64!} \quad \text{64!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{64!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \text{64!} \quad \text{64!} \quad \quad \text{64!} \quad \text{64!} \quad \text{64!} \quad \text{65!} \quad \text{64!} \quad \quad \text{64!} \quad \quad \text{64!} \quad \quad \text{64!} \quad \quad \text{65!} \quad \quad \text{64!} \quad \quad \text{65!} \quad \quad \text{64!} \quad \quad \text{65!} \quad \quad \quad \text{65!} \quad \quad \text{65!} \quad \quad \quad \text{65!} \quad \quad \text{65!} \quad \quad \text{65!} \quad \quad \quad \text{65!} \quad \qu

9 f5? \$\d5! 10 e6 fxe6! 11 f6 \$\d6! 12 \$\def e3 e5! -+.

9...\c6! =

9...b4? 10 cxb4+! \$\times\$xb4 11 f5! \$\times\$c5 12 \$\times\$c3! \$\times\$d5 13 e6! fxe6 14 f6! \$\times\$d6 15 \$\times\$b4!! e5 16 \$\times\$xa3! e4 17 \$\times\$b2 e3 18 \$\times\$c2 \$\times\$e6 19 a4 +--.

1/2-1/2

A15.21 E.Pogosiants, 1966

The last exercise presents a move that, it has to be admitted, is very unusual for a book on pawn endings. Since staying in the rook ending isn't sufficient for a win and Black can save himself with the help of a stalemate trick after 1 \(\mathbb{Z}f1+?\), the only move to win is...

10-0+!!

In studies one is allowed to castle no matter how improbable it might seem that neither the king nor the rook have moved before if it can't be proved by the position that castling is forbidden.

1 **里**f1+? **堂**e3! 2 **里**h1 (2 **里**xf5 is stalemate) 2...**堂**f4 =; 1 **里**h4+? **堂**e5! 2 **里**e4+ **堂**d5! =.

1...\$e5 2 \$\mathbb{Z}\$xf5+! \$\mathbb{Z}\$xf5 3 \$\mathbb{Z}\$f1!

3 \$\psi_12? \$\psi_14 4 \$\psi_22 (4 \$\psi_22?? \$\psi_24! \\ -+) 4...\$\psi_25! =.

3...\$f4 4 \$f2!

From here on the following is identical with a study by Riichima (1942, *ECE* 848).

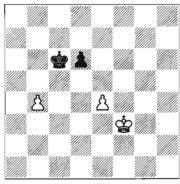
4...\$\psig4 5 \psie2 \psif4 6 \psid1 \psie5 7 \psic1! \psid5 8 \psib2 \psic5 9 \psia3! +--

Our last chapter should be understood as a sort of test. We have therefore divided it in three sections:

Section A is dedicated to the fundamental ideas. If you have studied the book carefully, these exercises should all be solvable.

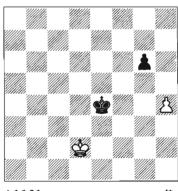
Section B features more difficult exercises.

Section C differs from the first two sections in that it's not so much concrete moves that count but rather the assessment of the position and the correct plan. These exercises are therefore very suitable to be played out or for analysis training. The solutions include a reference to the chapter (or chapters) which contain ideas relevant to that position.

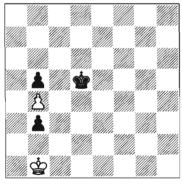


A16.02 /*

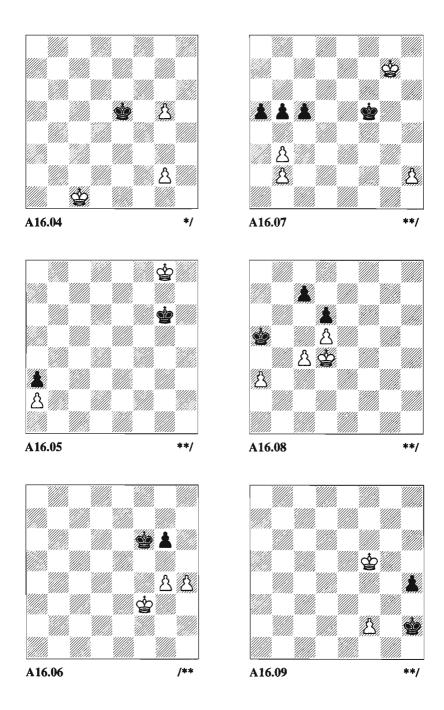
A) Easy Exercises





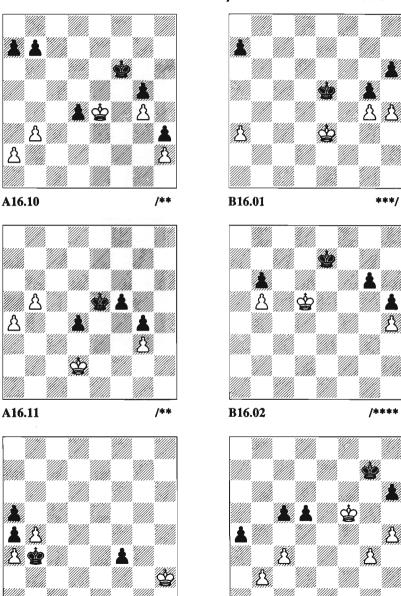


A16.03 */



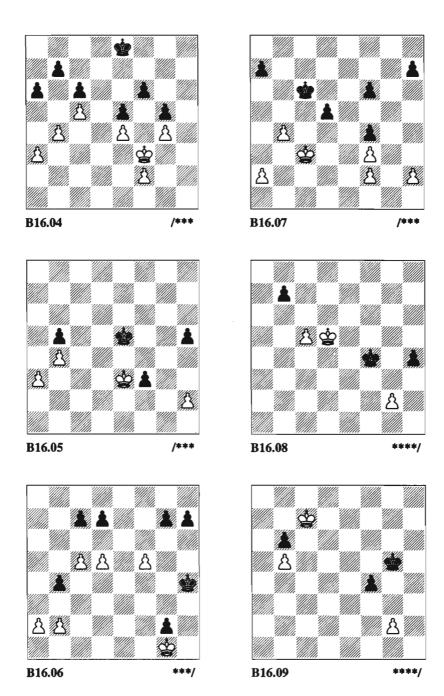
A16.12

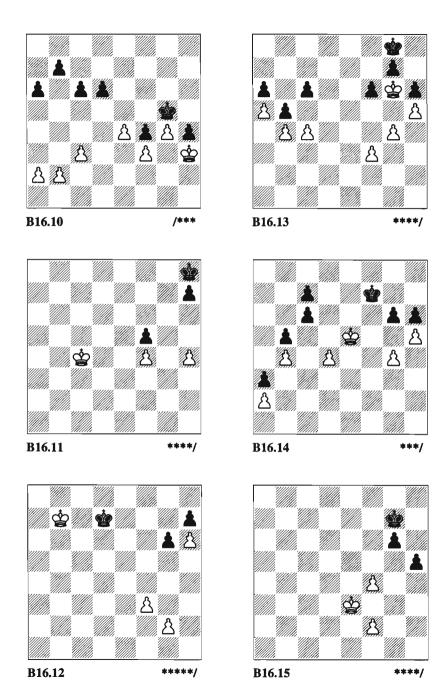
B) Difficult Exercises



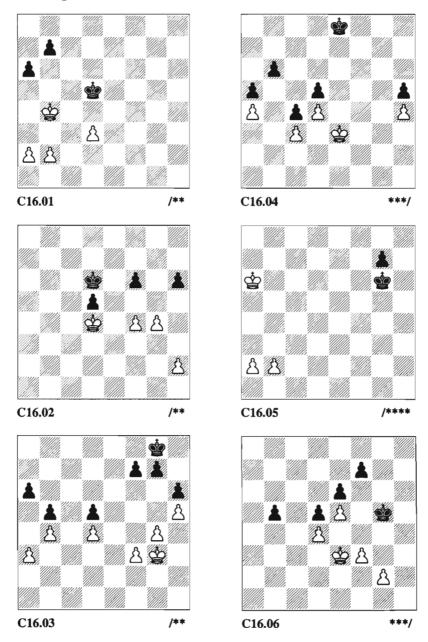
B16.03

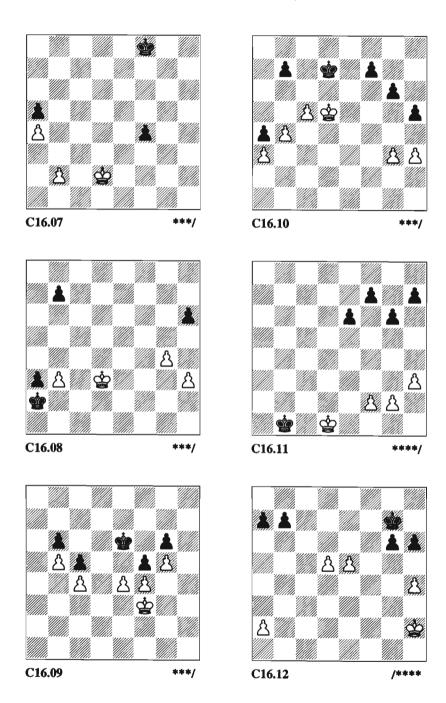
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C) Judge the Position





Solutions to Chapter 16 Exercises

Easy Exercises

A16.01 P.Peelen – L.van Wely, Wijk aan Zee 1990

(See Chapter 2.)

This position shows that also in simple endings one has to proceed with the necessary accuracy:

1...\$f3!

Bodycheck. 1...\$f4? 2 h5! =.

2 de1 dg4! 0-1

In view of 3 \$\psi f2 \$\psi xh4! 4 \$\psi f3 g5! 5\$ \$\psi f2 \$\psi h3! 6 \$\psi f3 g4+! -+ (A1.04, 2.13).

A16.02 V.Salov – J.Timman, *Saint John Ct* (1) 1988

(See Chapter 2.)

This doesn't seem too good for Black, but two precise moves save him:

1...**⊈**b5!

1...d5? 2 e5! d4 3 \$\preceq\$e4! d3 4 \$\preceq\$xd3 \$\preceq\$d5 5 e6 \$\preceq\$xe6 6 \$\preceq\$c4! \$\preceq\$d6 7 \$\preceq\$b5! \$\preceq\$c7 8 \$\preceq\$a6! +- (A1.04).

2 **⇔**e3

2...\$c4!!

Again a bodycheck. 2... \$\precepxb4? 3 \$\precepd4! \\
+-.

1/2-1/2

A16.03 F.Yates - S.Tartakower, Bad Homburg 1927

(See Chapters 2 and 6.)

Of course you know this classic, but it's too beautiful to leave it out.

1 \$b2! \$c4 2 \$a3! b2

 $3 \implies 2!! \implies c3 4 \implies b1! \implies xb4 5 \implies xb2! =$

■ Compare Ju.Horvath-S.Horvath, Hungary 1988: w\$e3,Åh5; b\$f6,Åe6,h4: 1 \$f4! h3 2 \$g3 \$g5 3 \$h2! \$h6 4 \$g3! draw.

A16.04 N.Grigoriev, 1935

(See Chapter 1.)

For a change an easy Grigoriev:

1 g4! **\$**e6

1...**\$**f4 2 g6! **\$**g5 3 g7! **\$**h6 4 g8 +-.

2 \$\psi d2! \$\psi f7 3 \$\psi e3! \$\psi g7 4 \$\psi e4\$

4 **\$**f4? **\$**g6! =.

4...\$\psig6 5 \Psig5! \Psig6 2 6 \Psig5! \Psig7 7 \\
g6+! \Psig7 8 \Psig5! +- (A1.09)

A16.05 Sackmann, Deutsche Schachblätter, 1923

(See Chapter 5.)

It seems as if the black king has trapped his white colleague, but one has to be aware of the fact that there is still a sidestep necessary.

1 **\$**h8!

1 \$\precepter f8? \$\precepter f6! 2 \$\precepter g8 \$\precepter 6! -+. Now the black king only walks in a diagonal way.

1...\$66 2 \$h7! \$e5 3 \$g6! \$d4 4 \$f5! \$c3 5 \$e4! \$b2 6 \$d3! \$xa2 7 \$c2! =

A16.06 G.Breyer - R.Réti, Debrecen 1913

(See Chapter 4.)

Black only draws if he defends the key squares on the fifth rank:

1...\$f7!

2 \$\psie4 \$\psie6! 3 \$\psid4 \$\psid6!

3...\$f6? 4 \$d5! \$e7 5 \$e5! \$f7 6 \$d6! \$f6 7 g5+ \$f5 8 \$e7! +-.

4 \$e4 \$e6! 5 \$f3 \$f7

5...**⊈**f6:

a) 6 \$\psi f2 \$\psi f7! = (6...\$\psi e6? 7 \$\psi e2! \$\psi d6 8 \$\psi f3! \to).

b) $6 circ f4 ext{ g5+!} = .$

6 \$\pmes e 3 \$\pmes e 7! 7 \$\pmes d 3 \$\pmes d 7! 8 \$\pmes c 4 \$\pmes e 6!\$
9 \$\pmes c 5 \$\pmes e 5! = (5.15) \$\frac{1}{2} - \frac{1}{2}\$

■ In 1936, Mandler (ECE 903) moved the white king to e1, whereupon White to move wins by 1 \dot d2!.

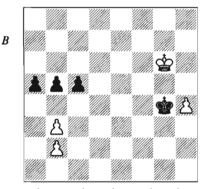
A16.07 Em.Lasker - S.Tarrasch, St Petersburg 1914

(See Chapter 3.)

It seems as if White is helpless against a breakthrough on the queenside but Lasker has an amazing resource:

1 h4! \$\preceq\$g4 2 \$\preceq\$g6!! (D)

2 \Pf6? c4! 3 bxc4 bxc4! 4 \Pe5 c3! 5 bxc3 a4! -+ (A1.03).



2...\$\psixh4 3 \psif5! \$\psig3 4 \psie4 \psif2! 5 \$\psid5 \psie465 \psie463 6 \psixc5 \psid3 7 \psixb5 \psic2! 8 \$\psixa5 \psixb3! \frac{1}{2}-\frac{1}{2}\$

A real classic!

A16.08 Karaklajić - Czerniak, Belgrade 1954

(See Chapter 7.)

Since he can't get through on the queenside, White has to act in a dynamic way by preparing an attack against the c7-pawn:

1 c5!

1 &c3? was played in the game:

a) 1...\$b6? 2 a4 (2 \$b4? c5+ only leads to a draw) 2...\$a5 3 \$b3! \$b6 4

2b4! c5+ 5 dxc6! **2**xc6 6 a5! and White wins

- b) 1...\$\psi_a4! 2\psi_b2\psi_a5! 3\psi_b3\psi_b6!:
- b1) 4 a4 c5 (4...\$\perp a5? 5 \perp a3! \$\perp b6 6\$
 \$\perp b4! c5+ 7 \, dxc6! \$\perp xc6 8 a5! +-) 5 \, dxc6\$
 \$\perp xc6! 6 \$\perp b4 \perp b6! (6...d5? 7 \, cxd5+!) \$\perp xd5 8 \perp b5! +-) 7 a5+ \$\perp c6! (reciprocal zugzwang with White to move) 8 \$\perp a4\$
 \$\perp c5! 9 \$\perp a3 \, d5! 10 a6 \$\perp b6! 11 \, cxd5\$
 \$\perp xa6! =.
- b2) The game concluded 4 \$\pi b4 \c5+ 5\$ dxc6 \$\pi xc6! 6 a4 \$\pi b6! 7 \$\pi b3 d5 8 \cxd5 \$\pi c5! 9 a5 \$\pi xd5! \frac{1}{2}-\frac{1}{2}.\$

1...\$a4 2 c6

2 \$\psic 4\$ \$\psi a 5 3 c6 \$\psi a 4 4 \$\psi d3 \$\psi xa 3 5\$ \$\psi e 4! +-; 2 cxd6? cxd6! 3 \$\psi c 4 \$\psi a 5! 4\$ \$\psi b 3 \$\psi b 5! 5 a 4+ \$\psi c 5! =.

2...\$\psi xa3 3 \psi e4! \psi b4 4 \psi f5! \psi c4 5 \psi e6! \psi c5 6 \psi d7 +-

A16.09 S.Isenegger, Schweizerische Schachzeitung, 1951

(See Chapter 3.)

The surprising withdrawal constitutes the attraction of this study:

1 **\$**e6!!

1 96? 92 2 f4 h3! 3 f5 h2! 4 f6 h1 1! 5 97 (5 f7 1h8! -+; if the queen gets in front of the pawn the win is always safe) 5... 1 -+.

1 f4? \(\psig 3! 2 \psig 5 \) h3! 3 f5 h2! 4 f6 h1\(\psi! \)! 5 f7 \(\psi h8 -+ \).

1...h3 2 f4! \$\partial g3 3 f5! h2 4 f6! h1\$\psi\$ f7! \$\partial h8 6 \$\partial e7! \$\partial e5+ 7 \$\partial d7 \$\partial e6 8\$
\$\partial e8! \$\partial e6+ 9 \$\partial e6 10 \$\partial e9 10 \$\partial e7! \$\partial e6 13 \$\partial e6 13 \$\partial e6 14 \$\partial e6+ \$\partial e6 18 \$\pa

A16.10 R.Salgado – R.Djurhuus, corr. 1992

(See Chapter 10.)

At first sight everything seems to be OK for White but...

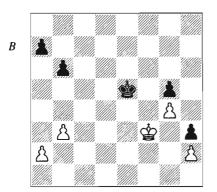
1...d3!

The pawn gives all it has in order to open up the way for the king.

2 \$xd3 \$e5! 3 \$e3 b6!

Not 3...a5?:

- a) 4 a4? b6! 5 \$#63 \$#d4! 6 \$#g3 \$#e3! (6...\$#e3? 7 \$#xh3! \$#xb3! 8 \$#g2 = withthe idea h4) 7 \$#xh3 \$#f2! -++.
- b) 4 a3 b5 5 b4! (5 \$\psi f3? \$\psi d4! 6 \$\psi g3\$ \$\psi c3! 7 \$\psi xh3 \$\psi xb3! 8 \$\psi g2 \$\psi c4 -++)\$ 5...a4 6 \$\psi f3! \$\psi d4 7 \$\psi g3! \$\psi c4 8 \$\psi xh3!\$ \$\psi b3! 9 \$\psi g2! \$\psi xa3! 10 h4! \$\psi k4 11 \$\psi t5 \$\psi xb4 12 \$\psi 6! a3 13 \$\psi 7! a2 14 \$\psi \psi t1 \$\psi t6! \$\ps
 - 4 \(\dot{13} (D)
 - 4 \dagger d3 \dagger f4 -+.



4...\$d4! 5 \$g3 \$e3! 6 \$xh3 \$f2!

Because of 7 a3 (7 b4 b5! -+; 7 a4 a5! -+) 7...a6! 8 b4 (8 a4 a5! 9 b4 axb4! 10 a5 b3! -+) 8...b5! 9 a4 bxa4! 10 b5 a3! 11 bxa6 (11 b6 a2! 12 b7 a1 1 13 b8 11 bxa6 (11 b6 a2! 12 a7 a1 1 13 a8 11 bxa6 (13 ... 3 a8 11 bxa6 (14 3 a8 11 bxa6) 14 3 a8 11 bxa6 (15 a1 bxa6) 15 a1 bxa6 (15 a1 bxa6)

A16.11 Stoltz - Nimzowitsch, Berlin 1928

(See Chapter 9.)

Black shouldn't allow White's pawns to roll; instead he has to throw his own pawns into the equation:

1...f4!

1...\$\psid5? 2 a5 \$\psic5 3 a6 \$\psib6! 4 \$\psid3!\$ f4! 5 \$\psix xd4! f3! =; 1...\$\psid6? 2 \$\psid3! f4! 3\$
\$\psi xd4! f3! =

2 gxf4+ \$d6!!

The black king stops the queenside pawns while the common square of dand g-pawn reaches the first rank.

3 a5 g3! 4 a6 \$\psic c7! 5 \$\psic e2 d3 + 6 \$\psi xd3\$ g2! 0-1

By the way, if White is to move, he wins by 1 \$\text{\$\Delta}\$d3! f4 2 gxf4+! \$\text{\$\Delta}\$d5 3 a5! g3 4 a6! g2 5 a7! g1 \$\text{\$\Delta}\$ 6 a8 \$\text{\$\Delta}\$+! \$\text{\$\Delta}\$c5 7 \$\text{\$\Delta}\$c6+\$\text{\$\Delta}\$b4 8 \$\text{\$\Delta}\$c4+ \$\text{\$\Delta}\$a5 9 \$\text{\$\Delta}\$xd4! \$\text{\$\Delta}\$b1+ 10 \$\text{\$\Delta}\$e2 \$\text{\$\Delta}\$xb5+ 11 \$\text{\$\Delta}\$e3 +-.

A16.12 E.Pogosiants, 1976

(See Chapters 3 and 6.)

With the knowledge of Chapter 3 you will have certainly managed this exercise:

1 b5!

1 bxa5? f2 2 \(\perp \)g2! \(\perp \)xa3 3 a6 f1\(\perp \)+ 4 \(\perp \)xf1! \(\perp \)b2! 5 a7 a3! 6 a8\(\perp \) a2! = (3.07).

1...**\$**c3

1...\$c4 2 b6! \$d3 3 b7! f2 4 b8\$! f1\$\mathbb{\begin{align*}
f1\$\mathbb{\mathbb

2 **⋭**g1!

2 \pmg3? \pmd4! =; 2 b6? \pmd2! =.

2...\$\display\$c4 3 b6! \$\display\$b5 4 b7! \$\display\$a6 5 b8\$\display\$!

5 b8 ? f2+=.

Difficult Exercises

B16.01 Lanchava – Fish, *USSR 1988*

(See Chapters 5 and 11.)

Bähr's Rule and a fight for tempi dictate the further proceedings:

1 a4!!

1 hxg5? hxg5! 2 a4 a5! -+; 1 h5? a6 2 a4 a5 -+.

1...gxh4

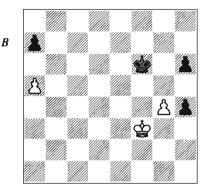
1...a5 2 h5! =; 1...a6 2 hxg5 hxg5! 3 a5= $(3 $\psi f3?! $\psi d4 4 a5! $\psi d3 5 $\psi f2 =).$

2 cf3?

2 a5! \$\psi 6 (2...\$\psi d5 3 \$\psi f3 =; 2...a6 3 \$\psi f3! \$\psi f6 4 \$\psi g2! =) 3 a6! (3 \$\psi f4? a6! -+; 3 \$\psi f3? \$\psi g6!! -+) 3...\$\psi g5 4 \$\psi f3! h3

5 \(\preceq \text{g3!} \) h2 6 \(\preceq \text{xh2} \) \(\preceq \text{xg4} \) 7 \(\preceq \text{g2!} = \text{according to B\(\text{Bihr's Rule (Andrianov Inf 45).} \)

2...**\$f6** 2...a5!? -+. 3 **a5** (D)



3...**⊈**g6!!

It is now reciprocal zugzwang with White to move. 3... \$\precepg{\phi}\$g5? 4 a6! =.

4 a6

4 \$\psig2 \$\psig5! 5 \$\psih3 a6! -+; 4 \$\psif4 a6! -+

4...\$g5! 5 \$f2 \$xg4 6 \$g2 h3+! 7 \$h2 \$h4! 8 \$g1 \$g3 -+

And by his precise play Black won after a few more moves.

B16.02 Krutiansky – Zagorovsky, USSR 1952

(See Chapters 9 and 10.)

Since the immediate breakthrough 1...g5 only leads to a draw, Black has to proceed in a more subtle way:

1...**⊈f**7!!

1...\$\psi d7?! 2 \psi e5 \psi e7! 3 \psi d5 \psi f7! -+.

1...g5? 2 hxg5! h4 (2...\$f7 3 \$e5 \$g6 4 \$f4! = is reciprocal zugzwang with Black to move) 3 \$e4! h3 4 \$f3! \$f7 5 \$eg3! \$eg6 6 \$exh3! \$exg5 7 \$eg3 =. White gets to b3 in time after Black has captured on b5 (see 1.10).

1...\$f6? 2 \$c6! g5 3 hxg5+! \$xg5 4 \$xb6! =.

2 **\$**c6

2 \$\psie5 \psig7! 3 \$\psie4 \psif6 4 \$\psif4 g5+ 5\$ hxg5+ \$\psig6! -+.

4 \$\displant a 7 h3! 5 b6 h2! 6 b7 h1\$\displant 7 b8\$\displant \displant a 1 + 8 \$\displant b 7 \$\displant b 1 + 9 \$\displant c 7 \$\displant x b 8 + -+.

4...**∲**e7 0-1

Black is within the square.

B16.03 V.Genba - E.Wagenmakers, Groningen 1994

(See Chapters 8 and 9.)

White has to play accurately to win despite Black's option of a queenside breakthrough:

1 g4!

1 \$\preceq\$e5?? d4! 2 cxd4 c4! 3 \$\preceq\$e4 (3 d5 c3 4 bxc3 a3 5 d6 \$\preceq\$f7 \to +) and now:

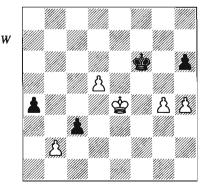
a) 3...c3? 4 \$\psi d3! \cxb2! 5 \$\psi c2! \h5!! (5...a3? 6 \ga 4+-) 6 \$\psi xb2! \$\psi f7 7 \$\psi a3 \$\psi e6! =.

b) 3...h5! 4 d5 c3! 5 bxc3 a3! 6 d6 \$\precepter f7 -+.

1...d4 2 cxd4! c4!? 3 \$\docume{e}\$e4!

3 d5? c3 4 bxc3 a3 5 d6 \precent f8!! (5...\precent f7? 6 g5! =) 6 \precent f6 \precent f6 \precent f6 g5! = \text{ -+.}

3...\$f6 4 d5 c3 (D)



5 \$\d3! \cxb2 6 \d2! a3

6...\$e5 7 g5! hxg5 8 h5! and wins (8.01C,D).

7 \$b1 \$f7

7...\$\psi 8 g5! hxg5 9 h5! \$\psi xd5 10 h6! \$\psi c4 11 \$\psi c2! +-.

8 g5 hxg5 9 hxg5! +- (8.01C)

9 h5?? g4 -+.

1-0

B16.04 E.Eliskases – L.Schmitt, German Ch (Bad Oeynhausen) 1938

(See Chapters 6 and 11.)

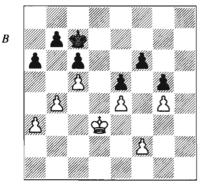
The position is almost completely closed but White threatens to penetrate on the queenside with the help of the spare tempo f2-f3. Black immediately has to close that route; otherwise he will lose. In this example we could use the detailed analyses and annotations of *BCE*.

1...**⊈d**7

1...a5 2 \$\dispersecond{\text{c}}\text{e3} \text{ axb4} = is a change of move-order.

2 **\$e3** a5!!

Not 2...\$c7? 3 \$d3 (D):



a) 3...a5 4 \$\div c4:

a1) 4...a4 5 b5! \$\psi d7 6 \$\psi b4 +-- (after 6 bxc6+? bxc6! = there is no way through on the queenside against a king that oscillates between a7 and b7; 6 b6?! though also wins: 6...\$\psi c8 7 \$\psi b4 \$\psi b8 8 \$\psi xa4 \$\psi c8 9 \$\psi b4 \$\psi b8 10 a4 \$\psi c8 11 a5 \$\psi b8 12 a6 bxa6 13 \$\psi a5 \$\psi b7 14 f3! \$\psi b8 15 \$\psi xa6! \$\psi a8 16 b7+! \$\psi b8 17 \$\psi b6! f5 18 exf5 e4 19 f6 +-).

a2) 4...\$\Delta 8 5 \Delta 5 \Delta 3 \Delta a 7 6 \Delta 4 \Delta 6 7 f3! axb4 8 \Delta xb4! \Delta a 7 9 \Delta a 5! \Delta a 8 10 \Delta b 8 11 a 4! +-.

b) 3...\$b8 4 \$c4:

b1) 4...\$\preceq\$a8 5 \$\precep\$b3 \$\precep\$a7 6 \$\precep\$a4! b5+7 cxb6+! \$\precep\$xb6 8 f3! (8 \$\precep\$b3? c5! =) and now:

b11) 8...c5 9 bxc5+! \$\psi\$xc5 10 \$\psi\$a5!\$
\$\psi\$d4 11 \$\psi\$xa6 \$\psi\$e3 12 a4 \$\psi\$xf3 13 a5
\$\psi\$xg4 14 \$\psi\$b5 \$\psi\$f3 (14...\$\psi\$h3 15 a6! g4
16 a7! g3 17 a8\$\psi\$! g2 18 \$\psi\$h8+\$\psi\$g3 19
\$\psi\$xf6 g1\$\psi\$ 20 \$\psi\$g5++-) 15 a6! g4 16 a7!
g3 17 a8\$\psi\$! g2 18 \$\psi\$a7 +-.

b12) 8...\$\psi\$b7 9 \$\psi\$b3! \$\psi\$c7 10 \$\psi\$c4 \$\psi\$b6 11 a4! \$\psi\$c7 (11...\$\psi\$b7 12 \$\psi\$c5! \$\psi\$c7 13 a5! +-) 12 \$\psi\$c5! \$\psi\$b7 13 \$\psi\$d6! \$\psi\$b6 14 \$\psi\$e6 a5 15 bxa5+! \$\psi\$xa5 16 \$\psi\$d6 \$\psi\$b6 17 a5+ +-.

b2) 4...\$\psi_a7 5 \$\psi_b3 \$\psi_b8 6 \$\psi_a4! \$\psi_a8 7 \$\psi_a5! \$\psi_a7 8 a4! \$\psi_b8\$:

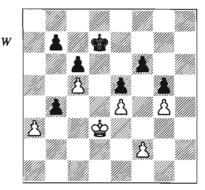
b21) 9 b5?! cxb5 10 axb5! 2c7 11 f3! (11 c6? axb5! 12 cxb7 2b8!! 13 2b4!? 2c7 = (7.03; also compare 16.05); 11 bxa6?? bxa6! 12 2xa6 2c6! +) 11...2d7 12 bxa6 bxa6 13 2b6! +-.

b22) 9 \$\phi\$b6 \$\phi\$c8 10 b5 (10 \$\phi\$a7?? \$\phi\$c7!=) 10...axb5 11 axb5! cxb5 12 \$\phi\$xb5 \$\phi\$c7 13 f3! \$\phi\$b8 14 \$\phi\$b6! \$\phi\$c8 15 c6! \$\phi\$.

3 **\$**d3

3 bxa5 **\$\display\$c7** =.

3...axb4! (D)



4 a4!?

4 axb4 \(\psi c7 5 \(\psi c3 \) b5 6 cxb6+ \(\psi xb6 7 \) \(\psi c4 \) \(\psi b7! \) 8 \(\psi c5 \) \(\psi c7! \) 9 \(\psi cxb5! \) 10 \(\psi xb5 \) \(\psi b7 = (7.03). \)

4...b6 5 cxb6! c5 6 \$\preceq\$c4 \$\preceq\$c6 7 a5! \$\preceq\$b7! 8 \$\preceq\$b3 =

Because 8 \$\precept{\$\precept{\$\precept{\$b5??}}\$ fails to 8...b3! -+. $\frac{1}{2}$ -\frac{1}{2}

B16.05 A.Kundin - K.Zalkind, Israel

(See Chapter 10.)

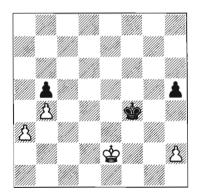
If Black plays very accurately he can hold this position due to the activity of his king because his h-pawn is already quite far advanced and Bähr's Rule often predicts a draw when White creates a passed pawn on the queenside by \$\displays b3\$ and a4. I.Tsesarsky analysed this example in detail in CBM 54.

1...f2!

R

1...\$\perpd5? 2 \perp xf3! \perp cc4 3 \perpense c4! h4 4 \perpense c5!! \perpense b3 (4...\$\perpense d3 5 \perpense d5 +--) 5 \perpense d4 \perpense xa3 6 \perpense c5! \perpense a4 7 h3! +--.

2 \$xf2 \$f4! 3 \$e2 (D)



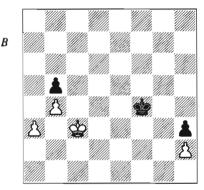
3...h4!

3...\$\pmeq 4? 4 h4! \$\pmeq 4 (4...\$\pmeq f4 5 \$\pmeq d3\$) \$\pmeq 5 6 \$\pmeq 63! \$\pmeq f5 7 \$\pmeq d4! \$\pmeq g4 8 a4 +--) 5\$ \$\pmeq d2! \$\pmeq c4 6 \$\pmeq c2! \$(now White finally profits from the opposition) 6...\$\pmeq d5 (6...\$\pmeq d5 8 a4! +--) 7 \$\pmeq d3! (7 \$\pmeq b3?! \$\pmeq c6 8 a4? bxa4+! 9 \$\pmeq xa4 \$\pmeq b6! =) 7...\$\pmeq 5 8 \$\pmeq e3! +-.\$

4 dd3 h3!

Not 4...\$\perp 6.7 5 \$\perp c3\$ h3 (5...\$\perp d5 6 \$\perp b3\$) \$\perp c6 7 h3 +--) 6 \$\perp b3!\$ \$\perp c4 7 a4!\$ bxa4+ 8 \$\perp a3!!\$ (8 \$\perp xa4? \$\perp f3!\$ =), when the apawn is fatal for Black because it stops the stalemate defence: 8...\$\perp f3 9 b5!\$ \$\perp g2\$ 10 b6! \$\perp xh2\$ 11 b7!\$ \$\perp g2\$ 12 b8\$\perp!\$! h2 13 \$\perp g8+\$\$\perp f2\$ 14 \$\perp d5\$ \$\perp g3\$ 15 \$\perp g5+\$\$\perp f2\$ 16 \$\perp h4+\$\$\perp g2\$ 17 \$\perp g4+!\$\$\perp f2\$ 18 \$\perp h3\$!\$\$\$\perp g3+!\$\$\perp h1\$ 20 \$\perp b4!\$ a3 21 \$\perp f2\$! a2 22 \$\perp f1\$#!\$\$

5 &c3!? (D)



5...\$f3?

- 5...\$\ddot\delta 4!! 6 \ddot\delta 2!? (after 6 \ddot\delta b3 \ddot\delta f3! 7 a4 bxa4+! 8 \ddot\delta 3 \ddot\delta g2! 9 b5 \ddot\delta xh2! = Black queens in time) and now:
- a) 6...\$\psi d4? 7 \$\psi b3! \$\psi e4 8 a4! bxa4+ 9 \$\psi a3!! \$\psi f3 (9...\$\psi d5 10 \$\psi xa4! \$\psi c6 11 \$\psi a5! \$\psi b7 12 \$\psi b5! +-;\$ White directly queens the b-pawn, because of which B\partial har's Rule can't be applied here) 10 b5! +-- see the note to Black's 4th move.
 - b) 6...\document{\psi}f3? 7 a4! +-.
- c) 6...\$\psi 65!! 7\$\psi 52 (7\$\psi 53\$\psi 66! 8 a4 bxa4+! 9\$\psi xa4\$\psi 66! =) 7...\$\psi c4 (7...\$\psi d6 =) 8\$\psi c2\$\psi d5! 9\$\psi d3\$\psi e5! 10\$\psi e3\$\psi d5! 11\$\psi f3\$\psi c4! 12\$\psi g3\$ (12\$\psi e4??\$\psi b3! 13\$\psi d4\$\psi xa3! 14\$\psi c5\$\psi a4! -+) 12...\$\psi b3! 13\$\psi xh3\$\psi xa3! =.

6 a4! \Delta g2 7 a5 1-0

B16.06 A.Troitsky, Deutsche Schachzeitung, 1913

(See Chapters 1 and 9.)

White has a dangerous candidate on the a-file, but in order to exploit this advantage some accuracy is necessary.

1 f6!

This blocks the h4-d8 diagonal, which is the black king's simplest route to the square of the a-pawn.

1 \$\preceq\$xg2? \$\preceq\$5! 2 a4 bxa3! 3 bxa3! \$\preceq\$6! 4 a4! \$\preceq\$e7! 5 \$\preceq\$g3 \$\preceq\$d8 6 \$\preceq\$f4 \$\preceq\$c8 7 \$\preceq\$g5 \$\preceq\$b7 8 f6! gxf6+ 9 \$\preceq\$xf6! h5 10 \$\preceq\$g5! \$\preceq\$a6 11 \$\preceq\$xh5 \$\preceq\$a5! 12 \$\preceq\$g5 \$\preceq\$xa4 13 \$\preceq\$f6 \$\preceq\$b5 14 \$\preceq\$e7 \$\preceq\$xc5! 15 \$\preceq\$xd7!=.

1 a4?? \$\pm\$g3 2 a5 h5! 3 a6 h4! 4 a7 h3! 5 a8\$\pm\$h2#!.

1...gxf6 2 2xg2!

Before the a-pawn can run, the mating idea ... \(\dot{2}g3 \) and ... \(h5 \) first has to be prevented.

2...**\$**g4 3 a4 bxa3 4 bxa3! **\$**f5 5 a4! **\$**e5 6 d6!

6 c6? d6! -+.

6...cxd6 7 c6!

Now the way to the square is completely blocked.

7...dxc6 8 a5! +- (1.01, A1.03)

B16.07 S.Sievers – K.Müller, *Hamburg U-17 Ch 1986*

(See Chapter 10.)

With his last move, 1 b4? (instead of 1 2d4 +-), White offered Black the chance to become the under-17 champion of Hamburg. However, he failed to profit from White's mistake: after 1... 2b5? 2 2b3! 1-0 the game was over (see 10.11) and Stefan Sievers became the under-17 champion.

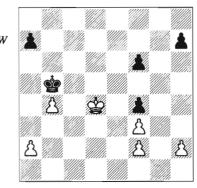
Black should have played:

1...d4+! 2 \$\price xd4

2 \$\preceq\$ 64 d3! 3 \$\preceq\$ c3 d2 4 \$\preceq\$ xd2 \$\preceq\$ b5! =. 2 \$\preceq\$ b3 \$\preceq\$ d5 3 a3 h6 4 h3! h5 5 h4! a6 6 a4! f5! 7 b5 axb5! 8 axb5! \$\preceq\$ c5! 9 b6! \$\preceq\$ xb6! 10 \$\preceq\$ c6 11 \$\preceq\$ xd4 (as an

explanation for the missing exclamation mark: 11 \$\preceq\$d3?! \$\preceq\$d5 12 \$\preceq\$d2 \$\preceq\$c4 13 \$\preceq\$c2! \$d3+ 14 \$\preceq\$d2 \$\preceq\$d4 15 \$\preceq\$d1! =) 11...\$\preceq\$d6! =.

2...**\$b5!** (D)



3 **\$e4!?**

3 \$\phi\$c3 \$\phi\$a4! 4 \$\phi\$c4 \$\phi\$a3 5 \$\phi\$b5 \$\phi\$xa2 6 \$\phi\$a6 \$\phi\$b3 7 b5 \$\phi\$b4 8 \$\phi\$xa7 \$\phi\$xb5! 9 \$\phi\$b7! \$\phi\$c4 10 \$\phi\$c6! \$\phi\$d3 11 \$\phi\$d5! h5 12 h4! \$\phi\$e2 13 \$\phi\$e4! \$\phi\$xf2 (13...\$\phi\$f1 14 \$\phi\$xf4 \$\phi\$xf2 15 \$\phi\$f5! \$\phi\$xf3 16 \$\phi\$xf6! \$\phi\$f4 17 \$\phi\$e6! \$\phi\$g4 18 \$\phi\$e5! =) 14 \$\phi\$xf4! =.

3...\$xb4! 4 \$xf4! \$a3 5 \$f5! a5 6 \$xf6 \$xa2 7 f4 a4 8 f5 a3 9 \$e6 \$b3 10 f6! a2! 11 f7! a1¥! 12 f8¥!

Though the resulting queen ending is very critical for Black he should be able to draw by precise play, e.g.: 12...豐e1+13 全d7 豐d2+ 14 全c6 豐c2+ 15 豐c5 豐g6+! ±.

B16.08 N.Grigoriev, 64, 1938

(See Chapter 10.)

White shouldn't let the black king immediately get behind the c-pawn. Instead, he has to get to the other side of his pawn in order to lure the black king onto the b-file:

1 **\$**c4!!

After 1 \$\precede{\phi}6? \$\precede{\phi}4 (1...\$\phig3? 2 \$\phic7 =) 2 \$\precede{\phi}6 (2 \$\precede{\phi}c7 \$\phid5 3 \$\phib6 \$\phic4! 4 \$\phixb7\$ \$\phixc5! 5 \$\phic7 \$\phid4! -+) 2...\$\phid4 3 \$\phid6\$

\$\preceq\$c4! Black is too fast: 4 c6 bxc6! 5 \$\preceq\$xc6 \$\preceq\$d4 6 \$\preceq\$d6 \$\preceq\$e3! 7 \$\preceq\$e5 \$\preceq\$f2! 8 \$\preceq\$f4 \$\preceq\$xg2! −+.

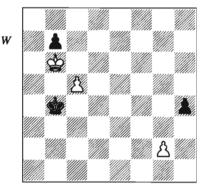
1...**⊈**e4

1...\$\psi_g3 2 \$\psi_b5! \$\psi_xg2 3 \$\psi_b6!\$ h3 4 \$\psi_xb7!\$ h2 5 c6! h1\$\psi 6 c7!\$ also leads to a draw (3.08).

2 **₽**b5

2 **\$**b4 =.

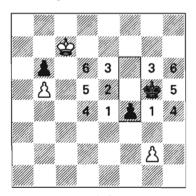
2...\$\psi d3 3 \psi b4 \psi d4 4 \psi b5! \psi c3 5 \psi a5! \psi c4 6 \psi b6! \psi b4 (D)



6...**\$**d5 7 **\$**b5! =.

7 c6! bxc6 8 \$\psi xc6! \$\psi c4 9 \$\psi d6 \$\psi d4\$
10 \$\psi e6 \$\psi e4 11 \$\psi f6 \$\psi f4 12 \$\psi g6! =

B16.09 F.Dedrle, 28 Rijen, 1926 (See Chapter 12.)



(g5=2)

If White immediately tries to capture the b-pawn, then Black draws with his f-pawn against the queen. Therefore White first has to conquer the corresponding squares in order to exchange the f-and g-pawns. Surprisingly, it is not enough for Black to get the (distant) opposition according to the corresponding squares, because White can use the squares c6, c7 and d7 to win:

1 \$\prec6!!

1 \$\psix\text{b6}? \$\psig\text{4} 2 \$\psic\text{5} \$\psig\text{3}! = (3.08); 1\$
\$\psid\text{9}7? \$\psif\text{5}! (1...\$\psi\text{5}? 2 \$\psic\text{7} \$\psig\text{5} 3 \$\psic\text{6}!\$
+-) 2 \$\psid\text{6} \$\psic\text{4}! 3 \$\psic\text{5} \$\psi\text{6}\$ \$\psi\text{3} 4 \$\psi\text{5}\$ (4\$
\$\psid\text{5} \$\psi\text{6} \$\psi\text{4} 4 6 \$\psi\text{5} \$\psi\text{6}\$ \$\psi\text{6} \$\psi\text{4} \$\psi\text{5}\$ \$\psi\text{6}\$ \$\psi\text{6} \$\psi\text{4} \$\psi\text{5}\$ \$\psi\text{6}\$ \$\psi\tex

1...**\$**g4

1...\$g6 2 \$xb6! +-.

2 \$\psid6! \$\psih4 3 \$\psie6! \$\psig5 4 \$\psie5! \$\psig4 5\$\$
\$\psif6! \$\psih4 6 \$\psif5! \$\psig3 7 \$\psig5! +--\$\$

■ During a training session in 1985, Herman van Riemsdijk wanted to present a study by Weenink (w\$f3,\$\Delta g2,b4; b\$g5,\$\Delta b5,f4: 1\$\Delta e4!\$\Delta g4 2\$\Delta d5\$\Delta h5 3\$\Delta c6\$\Delta g5 4\$\Delta c5!\$\Delta g4 5\$\Delta d6!\$+—) but by mistake placed the b-pawns at b5 and b6. The resulting study has the solution 1\$\Delta e4!\$\Delta g4 2\$\Delta d5\$\Delta h5 3\$\Delta d6\$\Delta h6 4\$\Delta c7\$\Delta h5 5\$\Delta d7\$\Delta g5 6\$\Delta c6!\$+— (see The Final Countdown, p.48f).

B16.10 A.Ilyin-Zhenevsky – A.Alekhine, USSR Ch (Moscow) 1920

(See Chapter 11.)

The black king has to defend the h4pawn and it seems inevitable that he will fall into zugzwang. However, Alekhine found the only way to keep the balance:

1...a5!

1...b5? 2 b4! c5 3 e5! cxb4 (3...dxe5 4 bxc5! +-) 4 exd6! bxc3 5 d7! +-; 1...b6? 2 a4 a5 3 c4 +-.

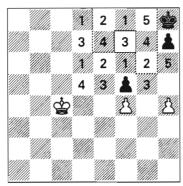
2 c4

 $2 b3 b5 3 a4 bxa4! 4 bxa4! d5! 5 exd5! cxd5! 6 $\preceq 2 =.$

2...b5 3 cxb5 cxb5! 1/2-1/2

White is unable to make any progress: $4 \oplus g2 (4 \text{ b3 b4!} =) 4... \oplus f6 5 \oplus h2 \oplus g6! 6 \oplus g2 \oplus f6 7 \text{ b3 b4!} (7... \oplus g5? 8 \oplus h2! +--; 7... \oplus g6? 8 \oplus h3! \oplus g5 9 \text{ a3!} +--) 8 \oplus h3 \oplus g5! =.$

B16.11 Hooper, New Statesman, 1961 (See Chapters 5 and 12.)



It's easy to see that the black f-pawn falls. But the black h-pawn is still at h7, and if you have studied Chapters 5 and 12, you are probably already on the scent. In fact the simple capturing of the f-pawn only leads to a draw since after xf5 Black still has the answer ... re? (see 12.07). However, this is a reciprocal zugzwang and thus White is successful if he considers the corresponding squares drawn in the diagram (the drawn line only serves for orientation purposes; it separates the systems of the attacker and the defender; of course White can, for example, get to e7 himself, whereupon ... \(\mathbb{g} \) 7 is the only answer because the key square f7 has to be defended).

1 \psic5!

1 \$\psi d5? \$\psi g7! 2 \$\psi e6 \$\psi g6! 3 h5 + \$\psi g7!\$
4 \$\psi xf5 \$\psi f7! = (12.06); 1 \$\psi d4? \$\psi g8! 2\$
\$\psi e5 \$\psi f7! 3 \$\psi xf5 \$\psi e7! = (12.07).

1...\$g8 2 \$c6!

2 \$\d4? \$\frac{1}{2}\$f8! 3 \$\frac{1}{2}\$e5 \$\frac{1}{2}\$f7! =.

2...\$g7 3 \$d5! \$f8 4 \$d6!

4 \$\psie6? \$\psie8! 5 \$\psif6 \$\psif8! 6 \$\psixf5\$\$ \$\psie7! = (12.07).

4...\$g7 5 \$e7! \$g8

Or 5...\$\psig6 6 \psie6! \psig7 7 \psixf5! +- (12.07).

6 \$e6! \$f8 7 \$f6!

7 \$\preceq\$xf5? \$\preceq\$e7! is a draw (see 5.10 or 12.07).

7...\$\psi_8 8 \psi_xf5! \psi_f7 9 \psi_e5 \psi_e7 10 \h5 \psi_f7 11 \psi_d6! +- (5.10, 12.06)

B16.12 J.Nunn, A.J.Mestel, J.Speelman, 1978

See Chapter 7.

This instructive example, taken from Tactical Chess Endings by Nunn, again shows the problem of realizing an extra pawn with a 3-2 formation. White has to act very accurately to be successful:

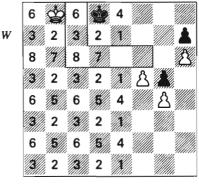
1 **\$**b8!!

Or:

a) 1 f4? \$\preceq\$e6! 2 g4 (2 \$\preceq\$c6 \$\preceq\$f5 3 g3 g5 =) and now:

a1) 2...\$\d7?! 3 \$\d8!:

a11) $4 f5 g5! (D) (4...gxf5? 5 g5! $\frac{1}{2}$e7 6 g6! hxg6 7 h7! +-).$



(d8=5=b8)

Black can keep the corresponding squares: 5 \$\price b7\$ (5 \$\price a8 \$\price c8! =) 5...\$\price d7!

6 \$\pi b6 \$\pi d6! 7 \$\pi b5 \$\pi d7! 8 \$\pi b4 \$\pi d8!\$
(8...\$\pi d6? 9 \$\pi c4! \$\pi c6 10 \$\pi d4! \$\pi d6 11\$
\$\pi e4! \$\pi d7 12 \$\pi d5! \$\pi e7 13 \$\pi c6 \$\pi f6 14\$
\$\pi d6 \$\pi f7 15 \$\pi d7! \$\pi f8 16 \$\pi e6! \$\pi e8 17\$
\$\pi f6! +--) 9 \$\pi c5 \$\pi c7! 10 \$\pi d5 \$\pi d7! 11\$
\$\pi e5 \$\pi e7! 12 f6+ \$\pi e8 13 \$\pi e6 \$\pi f8! 14\$
\$\pi f5 \$\pi f7! 15 \$\pi xg5 \$\pi e6! and Black defends.

a12) 4 g5 $ext{$$}$ e7 5 f5 $ext{$$}$ f7! (5...gxf5? 6 g6! +--) 6 f6! = (A6.03).

a2) 2...\$\psi f7!? 3 \$\psi c7 \$\psi c7! 4 \$\psi c6 \$\psi e6!\$
5 \$\psi c5 \$\psi c7 6 \$\psi d5 \$\psi f7 7 \$\psi c5 \$\psi c7!\$ 8 f5
gxf5 9 gxf5 \$\psi f7!\$ and Black can draw
(12.05).

- b) 1 g3? g5! 2 g4 \$\delta d6! 3 \$\delta c8 \$\delta c6\$ is a draw.
 - c) 1 \$\psi b6?! \$\psi d6 2 \$\psi b7! +-.

1...g5

Or:

- a) 1...\$\d6 2 \dc8! \dc8! \dc8:
- a1) 3 g4 g5 4 \$\preceq\$c7! \$\preceq\$e6 5 \$\preceq\$c6! (5 \$\preceq\$d8? \$\preceq\$d6! =) 5...\$\preceq\$e5 6 \$\preceq\$d7! \$\preceq\$f4 7 \$\preceq\$e6! \$\preceq\$xf3 8 \$\preceq\$f5! +-.
- a2) 3 \$\psic 7 \psic 6 4 \psid 8 \psi f 7 5 \psid 7\$
 \$\psi f 6 6 \psic e 8 \psig 5 7 \psi f 7 \psix h 6 8 \psi f 6 \psih h 5
 9 \psig 7 h 6 10 g3 \psig 5 11 f 4 + 1 \psig 4 12
 \$\psix g 6 1 \psi g 3 13 f 5 1 + -.
- b) 1...\$\d8 2 f4! \$\d7 3 g3! (3 g4?)\$\d8! =) and now:
 - b1) 3...**\$**d8 4 g4 +--.
- b2) 3...g5 4 fxg5! **2**e7 5 g6! wins for White.
- b3) 3...\$\d64\g4!\$\d55\f5\gxf56\g5!\f47\g6!\f38\g7+-(8\gxh7?!\f29\h8\frac{\psi}{1}\fantarrow 10\frac{\psi}{g7!}\t+-).

2 **⋭**b7! g4

- 2...\$\perpensentering 6 3 \perpensentering 6! \perpensentering f5 4 \perpensentering 6 g4 5 \perpensentering 6?!
- 3 fxg4! \$\preceq\$e7 4 \$\preceq\$c7! \$\preceq\$e6 5 \$\preceq\$c6!
- 5 \$\psid8? \$\psif6! 6 \$\psid7 \$\psig5! 7 \$\psie6\$ \$\psig6! =.
- 5...\$e7 6 \$d5 \$f6 7 \$d6 \$f7 8 \$e5 \$g6 9 \$f4 \$xh6 10 \$f5

10 g5+\$h5 11 g3!\$g6 12 \$g4!\$f7 13 \$h5!\$g7 14 g4! and White wins (4.17).

10...\$g7 11 \$g5 \$f7 12 \$h6! \$f6 13 g3! +-

B16.13 B.Spassky – E.Almada, Thessaloniki OL 1988

See Chapter 11.

Black stands with his back to the wall but it is hard to see what is really fatal for him, isn't it?

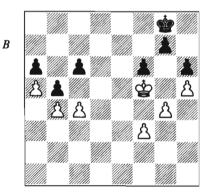
1 **\$**f5!! (D)

A surprising retreat.

1 cxb5? cxb5! 2 f4 \(\psi f8! \) 3 g5 hxg5 4 fxg5! fxg5! 5 \(\psi xg5 \) \(\psi e7 \) 6 \(\psi f5 \) \(\psi f7! 7 \) \(\psi e5 \) \(\psi e7! = ...\)

Not 1 c5? \$\preceq\$f8! 2 f4 \$\preceq\$g8! 3 g5 fxg5 4 fxg5 hxg5! 5 \$\preceq\$xg5:

- a) 5...\$\pmenture\$h7? 6 \$\pmenture\$f5 \$\pmenture\$h6 7 \$\pmenture\$e6 \$\pmenture\$xh5 8 \$\pmenture\$d6 g5 9 \$\pmenture\$xc6! g4 10 \$\pmenture\$b7 g3 11 c6! g2 12 c7! g1\$\pmenture\$13 c8\$\pmenture\$! \$\pmenture\$d4 14 \$\pmenture\$xa6 (14 \$\pmenture\$c5+? \$\pmenture\$xc5! 15 bxc5! =) 14...\$\pmenture\$xb4 15 \$\pmenture\$f5+\$\pmenture\$h4 (15...\$\pmenture\$h6 16 \$\pmenture\$xxb5 +--) 16 \$\pmenture\$f6+ (16 \$\pmenture\$xxb5? =) 16...\$\pmenture\$g4 17 \$\pmenture\$b6, and since the b-pawn shields the white king, the a-pawn can't be stopped, for example 17...\$\pmenture\$e4 18 a6 b4 19 a7 \$\pmenture\$e3+ 20 \$\pmenture\$b7 \$\pmenture\$e4+ 21 \$\pmenture\$c6 and the ending is winning for White.
- b) 5...\$\psi f7 6 \psi f5 \psi e7! 7 \psi e5 \psi d7! =.



1...\doc{1}{2}f7

1...bxc4 2 \$\dispersection e4! \$\dispersection f3 \$\dispersection d4! \$\dispersection e6 4\$ \$\dispersection d5 \$\dispersection d6 5 \$\d

2 \$\psie4! \$\psie6 3 \$\psid4! \$\psid6 4 f4!

Now it becomes clear why White did not exchange on b5: ... \$\documentum{\psi}\$c6 is impossible.

4...**\$**e6

4...bxc4 5 \$\preceq\$xc4! f5 6 gxf5 \$\preceq\$d7 7 \$\preceq\$c5 \$\preceq\$c7 8 f6 gxf6 9 f5! +-.

 $5 \cosh 5 \cosh 6 \implies c5! +- 1-0$

B16.14 E.Schmittdiel – L.Psakhis, *Dortmund 1989*

See Chapter 10.

At first sight the active king should outweigh Black's extra pawn, but only a second look proves that this assumption is in fact true:

1 hxg6+!

1 d5? gxh5 2 gxh5 c5! 3 bxc5 b4! 4 d6 cxd6+5 \$\prec{1}{2}\$xd6 b3 6 c6 bxa2! 7 c7 a1\$\prec{1}{2}\$! 8 c8\$\prec{1}{2}\$\prec{1}{2}\$d4+-+.

1 \$\preceq\$4? gxh5 2 gxh5 \$\preceq\$6! 3 \$\preceq\$f4 \$\preceq\$d5 \$4 \$\preceq\$f5 \$\preceq\$xd4 5 \$\preceq\$g6 c5 6 \$\preceq\$xh6 \$\preceq\$d5 7 \$\preceq\$g6 (7 \$\preceq\$g5 \$\preceq\$e6 -++) 7...cxb4! 8 h6 b3! 9 h7 b2! 10 h8\$\preceq\$b1\$\preceq\$+ -+.

1 \$\psif4? gxh5 2 gxh5 \$\psif6! 3 \$\psig4 c5 4 dxc5 \$\psie5! -+.

1...**\$**xg6! 2 **\$e**4?

2 \$\pme6! \$\pmeg5! 3 \$\pmed7! \$\pmexg4! 4 \$\pmexc6!\$ h5 (4...\$\pmedf5 5 \$\pmexc7! \$\pmedf2 4 6 \$\pmedf2 6 \$\pmexc6 \pmexc4! 7\$\$\$ \$\pmexx5! h5 =) 5 \$\pmexc7 h4 6 d5! h3 7 d6! h2 8 d7! h1\$\pmedfy 9 d8\$\pmedfy \$\pmedfy h2+\$ is just slightly better for Black.

6 \$\psi 5 \$\psi 6 \$\psi 5 \psi 6 \$\psi 5 \psi 6 \$\psi 7 \$\psi 9 \$\psi x 44! 8 \$\psi x 6 \$\psi 5! 9 \$\psi 5 \$\psi 4! 10 \$\psi 6 \$\psi 3! 11 \$\psi 7 \$\psi 2! 12 \$\psi 8 \$\psi 6 \$\psi 1 \$\psi + ! -+ .

6...\$\d5 7 \$\d3 c5 8 dxc5 c6! 9 \$\d\$c3 \$\d\$e4 10 \$\d\$b3 \$\d\$d3 Not 10...\$\psi4? 11 \$\psixa3! \$\psixg4! 12\$\$\psib3! \$\psif5 13 a4! bxa4+ (13...h5 14 a5! h4! =) 14 \$\psixa4! h5 15 b5:

a) 15...\$e6?! 16 \$a5! h4! (16...\$d7? 17 \$b6! h4 18 \$b7! +-) 17 b6! \$d7! 18 \$a6! h3! 19 b7 h2! 20 b8\$ h1\$! 21 \$b7+ \$d8! (21...\$e6? 22 \$b3+ \$d7 23 \$b7 +-) 22 \$b3 \$a1+23 \$b6 \$g7! 24 \$d3+ (24 \$e6 \$b7+25 \$axb7! stalemate) 24...\$e8! =.

b) 15...h4!? 16 b6 h3! =.

11 \$\primax xa3 \$\primax c4! -+

11... **\$**c3? 12 g5 hxg5! stalemate.

0-1

B16.15 F.Holzke, Schach 1/97, 1997

See Chapter 7.

Play is dominated by the many positions of reciprocal zugzwang, but to recognize that with a white king at e4 and a black king at f6 wasn't easy, was it?

1 **\$**d4!!

1 f3? \$\psi 6 2 \$\psi f2 \$\psi e6! 3 \$\psi g2 \$\psi d5! 4\$ \$\psi g3 \$\psi d4! 5 \$\psi h4 \$\psi e3! 6 \$\psi g5 h4! 7 \$\psi g4 h3! 8 \$\psi kh3 \$\psi kn5 \$\psi kn5! -+.\$

1 \$\psi f3? \$\psi f7! 2 \$\psi g2 \$\psi e6! 3 \$\psi g3 \$\psi f6! \\ -+ (3...\$\psi f5? 4 f3! h4+ 5 \$\psi h3! =).

1...**\$**f6

1...h4 2 \$\disperseq 6 3 \$\disperseq 6 1 ...\$\disperseq 7 2 \$\disperseq 6 3 \$\disperseq 6 3 \disperseq 6 1 ...\$\disperseq 7 2 \$\disperseq 6 3 \$\disperseq 6 5 \disperseq 6 3 \$\disperseq 6 5 \disperseq 6 1 ...\$\disperseq 6 2 \disperseq 6 1 ...\$\disperseq 6 1 ...

2 발e4! 살e6 3 f5+! gxf5+ 4 발f3! 쌓e5 4...h4 5 발g2! 발f6 6 f4 발g6 7 발h2 =. 5 발g3! 발e4 6 발h4! 발f3 7 발xh5! 발xf2 8 발g5! 발e3 9 발xf5! =

Judge the Position

C16.01 A.Shirov - J.Polgar, Dortmund 1996

See Chapter 7.

Black's counter-attack comes just in time. No wonder, since Judit Polgar had just simplified into this ending by an exchange on d3.

1...\$d4! 2 \$a5 \$xd3! 3 \$b6 \$c2! 4 a4 4 \$\precep\$xb7 a5! (4...\precep\$xb2? 5 a4! +-) 5 \$\precep\$b6 a4! =.

4...**⊈**b3

4...a5 5 $\triangle xb7 \triangle b3! = was also possible.$

5 a5 \$\div a4!

5...**\$**b4? 6 b3! +−.

1/2-1/2

Because of 6 b3+ 2b4! 7 2xb7

■ Hecht gives in CBM 54 the following study by Duras (ECE 138), which presents the zugzwang idea in a very instructive way: w\$\phi_a7,\text{\Delta}e2,f5; b\$\phi_c2,\text{\Delta}e7, f6: 1 \$\phi_b6!\$ \$\phi_c3 2 \$\phi_c5!\$ \$\phi_d2 3 \$\phi_c6!!\$ \$\phi_{e3} 4 \$\phi_d5!\$ \$\phi_f4 5 \$\phi_{e6}!\$ \$\phi_{e4} 6 e3! +-.

C16.02 A.Nimzowitsch – Chigorin, Karlsbad 1907

See Chapter 8.

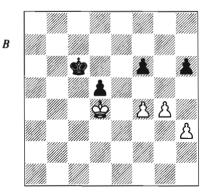
Black's position is critical because he has to remain passive. However, there is an answer to each white attempt to breakthrough:

1...\$ c6!

The game actually finished 1...\$\perpecepee 6? 2 \$\perpecepec 5!\$ f5 3 h3! fxg4 4 hxg4! d4 5 \$\perpecep xd4 \$\perpecepe d6 6 f5 \rightarrow 1-0.

2 h3 (D)

2 h4 \$\delta 6! 3 h5!? \$\delta 6! 4 \$\delta c5 f5! 5 g5 hxg5! 6 h6 \$\delta f7! 7 fxg5! f4! is a draw (Schlechter).



2...\$d6! 3 h4 \$c6!

3...\$e6? 4 \$c5! f5 5 g5! h5 6 g6 +-. 4 g5

4 h5!? \$\pm\$d6! 5 g5 fxg5! 6 fxg5! \$\pm\$e6 7 g6 = (see 6.01H).

4...fxg5

4...hxg5?! 5 h5!? g4! 6 \$\dispers 2000 25! 7 h6 d4+! 8 \$\dispers 2000 23! 9 h7 d3+! 10 \$\dispers 2000 23! 11 h8\$\dispers 21\$\dispers 1\$\dispers 2\$\dispers 1\$\dispers 1\$\dispers

a) 12 \(\psi f8+!\)? \(\psi c6\) (12...\(\psi b5\)? 13 \(\psi xf6! +-\) 13 \(\psi xf6+ \psi d7! =.\)

b) 12 \(\psi xf6 \)\(\psi b1 + 13 \)\(\psi e3 \)\(\psi b3 + ! 14 \)\(\psi e4 \)\(\psi d5 + ! 15 \)\(\psi e3 \)\(\psi b3 + 16 \)\(\psi f2 \)\(\psi h3 \)
=.

5 fxg5 hxg5! 6 h5 g4! 7 \$\pm\$e3 \$\pm\$c5! 8 \$\pm\$f4 d4! 9 \$\pm\$xg4 d3 10 \$\pm\$f3! \$\pm\$c4 11 h6 \$\pm\$h3!

(Euwe).

12 \$\preceq\$e3 \$\preceq\$c2! =

C16.03 I.Rogers - N.Sitnikova, London Lloyds Bank 1990

See Chapter 11.

Here Black only has the choice between two evils: ...f6 enables her to defend the d-pawn but decisively weakens the light squares, and after ...g5 she is short of one tempo:

1...f6

1...g5!? 2 hxg6! fxg6 3 &f4!:

a) 3...\$\psi f7?! 4 \$\phi = 5!\$ h5 (4...\$\phi = 7 5 \$\phi xd5 h5 6 gxh5 gxh5 7 \$\phi = 5 h4 8 \$\phi f4! +-) 5 gxh5! gxh5 6 \$\phi f5!\$ is winning for White.

b) 3...\$\psi_7!? 4\$\psi_5! h5 5 gxh5! gxh5 6 \$\psi_5!\$ \$\psi_6 7 f4! h4 8 \$\psi_94! \$\psi_96 9 \$\psi_xh4!\$ \$\psi_510 \$\psi_93!\$ \$\psi_64 11 \$\psi_94!\$ \$\psi_xd4 12 f5!\$ \$\psi_5 13 \$\psi_95!\$ +-.

2 \$14 \$18 3 \$15 \$17 4 \$1! \$e7 5 \$26!

5 g5? **\$**f7!! =.

5...\$f8 6 g5! fxg5 7 fxg5! hxg5 8 \$xg5! 1-0

In view of 8...\$\prec\$8 9 \$\prec\$g6 \$\prec\$f8 10 \$\prec\$f5 \$\prec\$g8 11 \$\prec\$e6 \$\prec\$h7 12 \$\prec\$xd5 +- (11.11, A11.16).

C16.04 B.Gelfand - Y.Seirawan, Amsterdam 1996

See Chapters 6 and 10.

It is hard to believe, but this position is drawn.

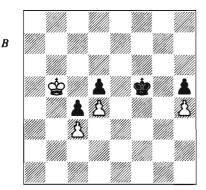
1 **d**d2

1 \$\psi f4? b5! 2 \$\psi e3 bxa4 3 \$\psi d2 \$\psi f7 4\$ \$\psi c2 \$\psi f6 5 \$\psi b2 \$\psi f5 -+.

1...\$\psi d7 2 \$\psi d1 \$\psi e6 3 \$\psi e2 \$\psi e7\$

3...\$\psi 5 4 \psi 5! \psi 5 axb5! \psi 6! 6 \psi 6\$
\$\psi 6 7 \psi 62 \psi 67 8 \psi 62 \psi b6 9 \psi b2
\$\psi xb5 10 \psi 3 =.

4 \$\pmes 3 \$\pmes 6 5 \$\pmes 2! \$\pmes d7 6 \$\pmes d1 \$\pmes 6 7\$\$ \$\pmes c2 b5 8 axb5+! \$\pmes xb5 9 \$\pmes b2! \$\pmes c6 10\$\$ \$\pmes a3! \$\pmes d6 11 \$\pmes a4! \$\pmes 6 12 \$\pmes xa5! \$\pmes f5 13 \$\pmes b5 (D)\$\$



13...**\$**g4?!

Seirawan risks everything and goes too far. 13...\$\psie4 14 \$\psic5 \$\psid3 15 \$\psixd5!\$\$\$\psixc3! =.

14 \$\psic 5 \$\psi xh4 15 \$\psi xd5! \$\psi g4 16 \$\psi c5!?

Not, of course, 16 \$\preceq\$xc4? h4! 17 d5 \$\precep\$f5! 18 \$\precep\$c5 h3! 19 d6 \$\precep\$e6! 20 \$\precep\$c6 h2! 21 d7 h1\$\precep\$+! 22 \$\precep\$c7 \$\precep\$h7! \to +.

16...h4 17 d5! \$f5 18 d6! \$e6! 19 \$c6! h3! 20 d7 h2! 21 d8數 h1數+! 22 \$c5 數g1+23 \$xc4 \$f1+24 \$c5 \$f5+

Now Black has to keep busy because the position with, e.g., the white queen on d4 or the pawn on c4 would be won for White.

25 \$\psi\$b6 \$\psi\$f2+ 26 \$\psi\$b5 \$\psi\$b2+ 27 \$\psi\$c4 \$\psi\$a2+ 28 \$\psi\$c5 \$\psi\$a3+

28...₩a7+? 29 ₩b6+ ₩xb6+ 30 \$\psixb6! +-.

29 ad4 wa4+ =

29...\delta\delta\delta+!? 30 \delta\xd6+! \delta\xd6! = (1.06) would now have secured the draw. Seirawan, who defended well in the queen ending despite his time-trouble, later lost on time.

C16.05 R.Emerson – J.Nunn, London 1969

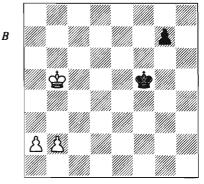
See Chapters 3 and 8.

You have certainly seen that 1...\$15!? is the only sensible move (if he moves to the seventh or sixth rank later queens can be exchanged by \$\mathbb{W}a7+\text{ or }\mathbb{W}b6+\text{ and after } 1...\$\mathbb{D}h5\text{ the queen is lost at once)}. But have you also noticed that White can nevertheless win?

2 \$\docume{b}5!! (D)

Emerson – see Nunn, Tactical Chess Endings.

The game continued 2 b4? g5! = and was later drawn.



2...g5 3 ⊈c4! ⊈e4

3...g4 4 \$\preceq\$d3! \$\precep\$f4 (4...g3 5 \$\precep\$e2! +-) 5 a4! +- (but not 5 \$\precep\$e2? \$\precep\$g3! 6 b4 \$\precep\$h3! =).

4 a4! g4 5 a5! g3 6 a6! g2 7 a7! g1 2 8 a8 2 +! \$ 64 9 2 68 +!?

According to the endgame CD-ROM, 9 \bbsubbsup b8+?! also wins but it is much more complicated: 9...\bbsub f5 10 \bbsub c8+ \bbsub f6 11 \bbsub d8+ \bbsub f7 12 \bbsub d5+ \bbsub e8 13 \bbsub e5+ \bbsub f7 14 b4+-

9...\$\perpense2\equiv 4 10 \perpense2\equiv 67+ \perpense5\equiv 3 11 \perpense2\equiv 67+ \perpense2\equiv 64 14 \perpense2\equiv 64+ \perpense2\equiv 64 14 \perpens

C16.06 Xie Jun - V.Hort, Prague (Women-Veterans) 1995

See Chapter 10.

After 1 g3! the b-pawn becomes weak so Black has to liquidate the pawns as soon as possible:

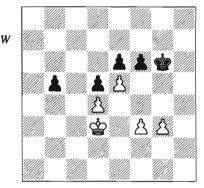
1...**⊈**g6!

1...f6? 2 f4+! \$\preceq\$g6 3 exf6! \$\preceq\$xf6 4 g4 +-.

2 &d3

2 g4? \$\ddotg5! -+; 2 f4? \$\ddotsh5! 3 \$\ddotsf3 b4! 4 g4+ \$\ddotsh4! -+.

2...f6! (D)



3 exf6

3 g4? fxe5! 4 dxe5 \(\psi_5! 5 \(\psi_4 \) b4! 6 \(\psi_4 3 \) \(\psi_4! 7 \) \(\psi_4 4 \) b3! 8 \(\psi_c 3 \) d4+ 9 \(\psi_x b 3 \) d3 10 g5 \(\psi_6 3! -+ \).

3 f4 fxe5 (3...f5 4 \$\preceq\$c3! \$\preceq\$h5 5 \$\preceq\$b4! \$\preceq\$g4 6 \$\preceq\$xb5! \$\preceq\$xg3! 7 \$\preceq\$c5 \$\preceq\$xf4! 8 \$\preceq\$d6! =; 3...b4? 4 exf6! \$\preceq\$xf6 5 g4! +-) 4 dxe5! \$\preceq\$f5 5 \$\preceq\$d4 b4 6 \$\preceq\$d3! \$\preceq\$g4 7 \$\preceq\$d4! = because 7...\$\preceq\$xg3? fails to the breakthrough 8 f5! b3 9 \$\preceq\$d3 d4 10 fxe6! b2

(10...\$\psi\$63 11 e7! b2 12 \$\psi\$c2! d3+ 13 \$\psi\$xb2! d2 14 e8\$\psi\$! d1\$\psi\$15 \$\psi\$h5+! +-) 11 \$\psi\$c2! d3+ 12 \$\psi\$xb2! \$\psi\$f2 13 e7! d2 14 e8\$\psi\$ d1\$\psi\$15 \$\psi\$f7+\$\psi\$e3?! 16 \$\psi\$b3++-.

3...\$xf6! 4 \$c3 e5!

4...\$\psi 5? 5 \$\psi b4 e5 6 g4+! \$\psi f4 7 dxe5!\$\$\psi xe5 8 \$\psi xb5! \$\psi f4 9 \$\psi c5! +-.\$\$

5 dxe5+ \$\preceq\$xe5! 6 \$\preceq\$d3 b4 7 f4+ \$\preceq\$f5 8 \$\preceq\$d4! \$\preceq\$g4 9 \$\preceq\$d3! \$\preceq\$f5 \$\frac{1}{2}-\frac{1}{2}\$

A drawn position has resulted that we already know from the Chapter 8.

C16.07 N.Grigoriev, 1930

See Chapter 8.

The manoeuvre b4-b5 is obvious, but the win in the queen ending is rather hidden:

1 b4! **\$e7**

1...axb4 2 a5! f3 3 a6! f2 4 \(\psi e2! +-. \)

2 b5! \$\precede{\phi}\$d6 3 \$\precede{\phi}\$e2 \$\precede{\phi}\$6 4 \$\precede{\phi}\$f3 \$\precede{\phi}\$e5 5 \$\precede{\phi}\$g4! \$\precede{\phi}\$e4 6 b6! f3 7 \$\precede{\phi}\$g3!

The decisive intermediate move.

7... \$\phi\$ 3 8 b7! f2 9 b8\pi! f1\psi 10 \$\psi\$ 65+! \$\phi\$ d2 11 \$\psi\$ xa5+! \$\phi\$ d1 12 \$\psi\$ d5+! \$\phi\$ c1 13 \$\psi\$ 66+ \$\phi\$ d1

13...**\$**b1 14 **\$**b5+! +−; 13...**\$**d2 14 **\$**g2+! +−.

14 当f3+ +-

C16.08 Walkewitz, Schach, 1976

See Chapter 6.

Due to its many stalemate options this study was a good opportunity to test your ability to calculate:

1 \(\doc{1} \docd{1} \docd{

1...b5 2 h4 b4 3 h5! \$\displant a1 4 g5! a2 5 \$\displant c1! hxg5 6 h6 g4 7 h7 g3 8 h8\displant #.

2 h4! b5 3 h5!

3 g5? hxg5! 4 hxg5! b4 5 g6 \$\dispare a1 6 g7 a2! 7 \$\dispare d3 \$\dispare b2! 8 g8\$\dispare a1\$\dispare ! 9 \$\dispare h8+ \dispare xb3! 10 \$\dispare xa1\$ stalemate; 3 b4? h5! 4 gxh5 \$\dispare a1 5 h6 a2! 6 h7 stalemate.

3...b4 4 g5! hxg5 5 h6! g4 6 h7! g3 7 h8\alpha!

7 h8∰? g2 8 ∰g8 g1∰! 9 ∰xg1! stalemate.

7...g2 8 \(\hat{L}\)d4! g1\(\psi\) 9 \(\hat{L}\)xg1! \(\psi\)a1 10 \(\hat{L}\)c5 \(\psi\)a2 11 \(\hat{L}\)xb4 \(\psi\)a1 12 \(\hat{L}\)xa3 +-

C16.09 Original

See Chapters 6 and 11.

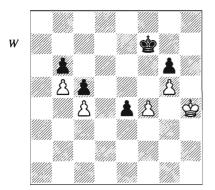
Because of the closed character of the position, the extra pawn has to be realized accurately.

1 **⋭**g3

After 1 e5?? = there is nothing one could do, and 1 exf5+? gxf5! 2 \dotg 3 \dotg f7! 3 \dotg h3 \dotg g7! 4 \dotg h4 fails to 4...\dotg g6! =. This leads to the solution:

1...\$f7 2 \$h4 fxe4 (D)

2...\$e63 exf5+! \$xf54\$g3!\$e45 \$g4!\$d46f5!+-.



3 **\$g3! \$e6**

4 蛤f2! 蛤f5 5 蛤e3! 蛤g4

5...\$e6 6 \$xe4! \$d6 7 f5 +-.

6 2xe4! +-

C16.10 P.Blatny - J.Howell, Lazne Bohdanec 1995

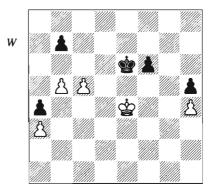
See Chapter 10.

Actually White has every advantage (active king, more dangerous majority) on his side. But surprisingly the black position is quite resilient:

1 g4!?

Or:

- a) 1 b5:
- a1) 1...f6 2 b6 g5? (2...h4! =) 3 g4! h4 4 c6+ bxc6+ 5 \$\displaystyle c5! f5 6 gxf5 g4 7 b7! +- (Blatny in CBM 45).
- a2) 1...h4!? (for this idea also compare 1...h5 in 9.11) 2 g4 (2 gxh4 f6! 3 c6+bxc6+ 4 bxc6+! \$\precept{\pickstyle c7!}\$ 5 \$\precept{\pickstyle c6}\$ f5! 6 h5 gxh5! 7 \$\precept{\pickstyle xc6!}\$ 8 \$\precept{\pickstyle g5}\$ \$\precept{\pickstyle d5}\$ 9 \$\pickstyle xh5\$ \$\pickstyle c4! = and Black is fast enough) 2...f6!:
- a21) 3 b6?! f5! 4 g5! (4 gxf5? gxf5! 5 c6+ bxc6+! 6 \$\displaysete c5 7 \$\displaysete xf5 \$\displaysete c6 -+) 4...\$\displaysete 8 =.
- a22) 3 c6+ bxc6+ 4 bxc6+! \$\preceq\$c7 5 \$\preceq\$e6 f5! 6 gxf5! gxf5! 7 \$\preceq\$xf5! \$\preceq\$xc6! =.
- b) 1 h4 f6! 2 b5 g5! (2...\$e7?3 c6! b6 4 c7! \$\preceq\$d7 5 c8\$\preceq\$+ \$\preceq\$xc8 6 \$\preceq\$e6 +--) 3 \$\preceq\$e4 (3 c6+ bxc6+! 4 bxc6+! \$\preceq\$c7! 5 \$\preceq\$e6 gxh4 6 gxh4! \$\preceq\$xc6! =) 3...gxh4! (3...\$\preceq\$e6? 4 g4 +--; compare 9.09) 4 gxh4 \$\preceq\$e6! (D):



b1) 5 b6 f5+! (5...\$\psi d7? 6 \psi f5! \psi c6 7 \psi g6!! \psi xc5 8 \psi xh5! +-) 6 \psi f4 \psi d5! 7 \psi xf5 \psi xc5! 8 \psi g5 \psi xb6! 9 \psi xh5! \psi c7 --

b2) 5 c6 bxc6! 6 bxc6! \$\preceq\$d6! 7 \$\preceq\$f5 \$\preceq\$xc6!:

b21) After 8 \$\precextextsf Black can either draw by 8...\$\precextextsf d6 = according to B\u00e4hr's Rule or start adequate counterplay by 8...\$\precextextsf 5 =.

b22) 8 \(\Delta 6!? \(\Delta \) 5 9 \(\Delta \) h5 f5 10 \(\Delta g 5 \) \(\Delta \) (surprisingly even 10... \(\Delta 6 \) 11 h5 \(\Delta 6!! = \) draws) 11 h5! f4! =.

c) 1 \$\dispes 65 \$\dispes 67! =.

1...hxg4!

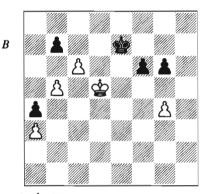
1...h4? 2 g5 +-.

2 hxg4! f6!

2...f5? 3 gxf5! gxf5 4 \$\dispersep=65! +-; 2...\$\dispersep=67? 3 g5! f5 4 gxf6+! \$\dispersep=65 \dispersep=66! \$\dispersep=67 6 b5 +-.

3 b5 \$e7!

3...b6? 4 c6+! +-- see under 4...b6. 4 c6 (D)



4...**\$**d8!!

4...bxc6+? 5 \$\preceq\$xc6! \$\preceq\$d8 6 \$\preceq\$b7 +- (6 b6? \$\preceq\$c8! =).

4...b6? 5 \$\psic 4 \$\psi d6 6 \$\psi b4 \$\psi e6 (6...f5 7 gxf5 gxf5 8 \$\psic c4 +-) 7 \$\psi xa4! f5 8 gxf5+! gxf5 9 \$\psi b3 +-.

5 cxb7 ½-½

Due to 5...\$\psic c7! 6 \psic e6 f5! 7 gxf5 gxf5! 8 \psix f5 \psix b7 =.

C16.11 I.Rogers - V.Smyslov, Groningen 1989

See Chapter 7.

Can the extra pawn be realized despite the bad king position? We think so!

1 g4

1 f4 h6 2 \$\ddot d2 f6 3 g4 g5! 4 fxg5 hxg5!

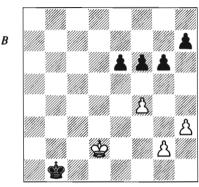
1 **⊈**d2:

a) 1...f6:

a1) 2 \$\d3 \$\cdot c1 3 f4 \$\d1 4 g4 \$\d2 c1 5 \$\d2 c3 (5 g5 fxg5! 6 fxg5 \$\d2 c2 -+; 5 f5 exf5

6 gxf5 \$\Phif2 -+\) 5...\$\Phif1 6 \$\Phif3 g5 7 f5 exf5 8 gxf5 h5 -+.

a2) 2 f4 (D):



a21) 2...g5?3 fxg5! fxg5! 4 \$\Delta\$d3 \$\Delta\$c1 5 \$\Delta\$e4 \$\Delta\$d2 6 \$\Delta\$e5 \$\Delta\$e3 7 \$\Delta\$xe6 \$\Delta\$f4 8 \$\Delta\$f6 =.

a22) 2...\$b2 3 \$d3:

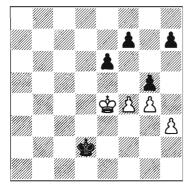
a221) 3...\$\psi\$b3? 4 g4 \psi\$b4 5 \psi\$d4!
\$\psi\$b5 6 h4! (6 g5? fxg5! 7 fxg5 \psi\$c6! 8
\$\psi\$e5 \psi\$d7! 9 \psi\$f6 \psi\$d6! 10 h4 e5! -+)
6...\$\psi\$c6 7 g5! fxg5 (7...f5 8 \psi\$e5! \psi\$d7 9
\$\psi\$f6! =; 7...e5+ 8 fxe5! f5 9 \psi\$c4! =;
7...\$\psi\$d7 8 gxf6! \psi\$e8 9 \psi\$e5 \psi\$f7 10 h5!
gxh5! 11 f5! =) 8 hxg5! \psi\$d6 9 \psi\$e4! =.

a222) 3...\$\psic1! 4 g4 \$\psic41 (4...h6?! 5 h4 g5! -+) 5 h4 (5 g5 fxg5! 6 fxg5 \$\psic1! 7\$ \$\psic3 \$\psic1! 8 \$\psic1 3 \psic5 9 h4 \$\psic1! 10 \$\psic3 9 e4 -+) 5...\$\psic1! 6 \$\psic3 \$\psic1! 7 \$\psic1 3 \psic1! 10 \$\psic3 9 e4 -+) 5...\$\psic1! 6 \$\psic3 \$\psic1! 7 \$\psic1 3 \psic1 9 \$\psic1! 10 \$\psic1 3 \psic1! 10 \$\psic1 3 \psic1 1 \$\psic1 5 9 \$\psic1 3! \$\psic1 2 10 \$\psic4 4! 10 \$\psic1 3 \psic1 2 10 \$\psic1 4! 11 \$\psic1 5 1 1 1 \$\psic1 5 1 1 1 \$\psic1 5 1 1 1 \$\psi

a23) 2...h6 3 h4 (3 g4 g5 -+) 3...h5! 4 \$\pmese2\$ e2 5 \$\pmese2\$ d4 \$\pmese2\$! 6 \$\pmese2\$ c5 \$\pmese2\$ d6! \$\pmese2\$ e3! \$\pmese2\$ e5! \$\pmese2\$ f6! \$\pmese2\$ e5! \$\pmese2\$ f6! \$\pmese2\$ e5! \$\pmese2\$ f6 \$\pmese2\$ e5! \$\pmese2\$ e5!

b) 1...g5 2 g3 (2 \$\dd 3\$\dd 3\$\dd 4\$\dd 2 4 \$\dd 2 6 5 \dd 2 -+) 2...f6 3 f4 gxf4! 4 gxf4 \$\dd 2 b 2 -+.

1...g5 2 \$\psi d2 \$\psi b2\$
2...f6 -+; 2...h6 -+.
3 \$\psi d3 \$\psi c1 4 \$\psi e4 \$\psi d2 5 f4 (D)\$
5 \$\psi e5 \$\psi e2 6 \$\psi f6 \$\psi xf2 -+.



5...gxf4!

В

In the game 5...h6? was played, when the f-pawn gives White sufficient counterplay for a draw: 6 f5! exf5+ (6...\$\div 2 7 f6 =) 7 gxf5! (7 \$\div xf5? \$\div e3\$ -+) 7...f6 (7...\$\div 2 8 f6 \$\div f2 9 \$\div e5\$ =) 8 \$\div d5! h5 9 \$\div e6! g4 (9...h4 10 \$\div xf6! g4! 11 hxg4 h3 12 \$\div g7\$ h2 13 f6 h1\$\div 14 f7 \$\div a1 + 15 \$\div g8! \$\div a2 16 g5\$ =) 10 hxg4! hxg4 (or 10...h4 11 g5 =) $11 $\div xf6! g3 12 $\div e7! g2 13 f6! g1$\div 1\frac{1}{2}-\frac{1}{2} (3.08, 3.09).$

6 \$xf4 \$d3 7 \$e5

7 g5 **\$**d4! −+.

7...\$e3 8 g5 \$f3 9 \$f6 \$f4

9...\$\psi_g3 10 \$\psi_xf7 e5! 11 g6 hxg6! 12 \$\psi_xg6 e4! -+.

10 \$xf7 e5! 11 h4

11 g6 hxg6! 12 \$\preceq\$xg6 e4! -+.

11...e4! -+

11...\$g4? 12 g6! hxg6! 13 \$xg6! =.

C16.12 H.Pillsbury – S.Tarrasch, Nuremberg 1896

See Chapter 8.

The outside candidates will certainly soon achieve their goal. Therefore the decisive question is whether White can support his central pawns in time. It proves to be wise to break through on the kingside by h5:

1...b5!? 2 \pmg3

2 d6? 全f7! 3 h5 g5! 4 d7 全e7! 5 e6 a5 6 全g3 b4 7 全g4 a4! 8 全f5 b3! 9 axb3 axb3! 10 全g6 b2! 11 d8豐+ 全xd8! 12 全f7 b1豐 13 e7+ 全c7! 14 e8豐 豐f5+! -+.

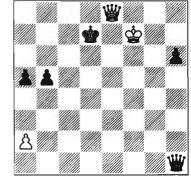
2 h5!? (Fine) and now:

- a) 2...g5?! 3 \$\Delta g3 a5 4 \$\Delta g4 \$\Delta f7!\$ (not 4...b4? 5 d6! \$\Delta f7 6 \$\Delta f5! +--) 5 \$\Delta f5! g4!\$
- b) 2...gxh5 3 \(\perp g3 \) b4 4 d6 \(\perp f7 5 \) d7 \(\perp e7 6 \) e6! a5 7 \(\perp h4! \) a4! 8 \(\perp xh5! \) b3 9 \(\axb3! \) axb3! axb3 10 \(\perp g6! \) b2 11 d8\(\perp +! \) \(\perp xd8! \) 12 \(\perp f7! = ... \)

2...b4

B

- 2...a5!? (Tarrasch) and now:
- a) 3 \$\psi f4 \$\psi f7! 4 h5?! (4 e6+ \$\psi f6! 5 \psi e4 =) 4...gxh5 5 \$\psi f5! h4! 6 d6 h3! 7 e6+! \$\psi e8! 8 \$\psi f6! h2! 9 d7+! \$\psi d8! 10 \$\psi f7 h1\$\psi! !1 e7+! \$\psi xd7! !2 e8\$\psi +! (D).



The resulting queen ending was assessed by Tarrasch (who then didn't have an endgame CD-ROM, of course) as being near to a win. In practice it certainly would offer good chances but objectively the assessment by Réti, ∓, should be correct:

a1) 12...\$\psic 7 13 \$\psix \text{xb5} (13 \$\psic 67+ \bar{\pi})\$
13...\$\psi f3+ 14 \$\psig g7 \bar{\pi} (14 \$\psig g6? \$\psic 6+!\$
-+).

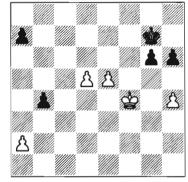
a2) 12...\$\psi d6 13 \$\psi d8+\$ (13 \$\psi xb5?\$ \$\psi d5+!\$ -+) 13...\$\psi c5 (13...\$\psi e5 14 \$\psi h8+\$ =) 14 \$\psi xa5 \$\psi f3+\$ 15 \$\psi g7 \$\psi f4\$ 16 a4 \$\psi xa4 17 \$\psi c7+\$\psi d5 18 \$\psi xh6 =.\$

b) 3 h5 = (Botvinnik).

3 \$f4 (D)

3 h5 = .

В



3...\$f7! 3...a5? 4 d6! \$f7 5 h5! gxh5 6 \$f5!

The game concluded 3...g5+? 4 hxg5! hxg5+ 5 \$\prec\$xg5 a5 6 d6 \$\prec\$f7 7 \$\prec\$f5! a4 8 e6+! \$\prec\$e8 9 \$\prec\$f6! b3 10 axb3 axb3 11 d7+ \$\prec\$d8 12 \$\prec\$f7 1-0.

4 e6+!?

For 4 h5?! gxh5! 5 \$f5! h4! \$\$, see under 2...a5!?.

4...\$f6! 5 \$e4 a5

5...g5 6 hxg5+! hxg5! 7 \$\dd4!\$ g4 8 \$\dd5c5!\$ \$\dd7! = .

6 \$\d4! a4!?

7 \prec5!

7 **\$**c4? b3! 8 axb3 a3! 9 **\$**c3 g5 and Black wins.

7...b3

7...g5?! 8 hxg5+ hxg5! 9 \$\preceder d6 b3! 10 e7 \preceder ; 7...\preceder e7? 8 \$\preceder xb4! g5 9 hxg5! hxg5 10 \$\preceder c5 g4 11 \$\preceder d4! +--.

8 axb3 axb3 9 \$\preceq\$d6! b2 10 e7! b1\$\preceq\$
11 e8\$\preceq\$! \$\preceq\$b4+ 12 \$\preceq\$c7! \$\preceq\$a5+! =

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Hiarcs 7.32 using the Nalimov tablebases

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Most of the instructive examples have been known for a long time. They are either elementary or they can't be clearly ascribed to an author. Next to the players and composers you will first find our number, then in brackets the number in the encyclopaedia or, if necessary, in Averbakh's work.

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