Microeconomics

Monika Köppl-Turyna

Department of Economics \mid ISCTE-IUL

Winter 2013/2014

Introduction

Thinking like an Economist

Course Outline:

- 1 Thinking like an Economist
- 2 Market
- 3 The Theory of Consumer Behavior
- 4 The Theory of the Firm
- 5 Market Structure and Imperfections

Textbooks:

- Robert H. Frank. Microeconomics and Behavior, 8/e. McGraw-Hill 2010
- Complementary textbooks:
 - Hal R. Varian. Intermediate Microeconomics: A Modern Approach, 8/e. Norton 2009
 - Pindyck, R.S. and D.L. Rubinfeld. Microeconomics, 7/e. Pearson Prentice–Hall, 2009
 - Krugman, P. and R. Wells. Microeconomics. Worth Publishers, 2009
 - Gravelle, H. and R. Rees. Microeconomics, 3/e. Financial Times Prentice Hall, 2004
- Some introductory books:
 - Robert H. Frank, Ben Bernanke. Principles of Microeconomics, 3/e.
 McGraw-Hill 2009
 - Gregory N. Mankiw. Principles of Microeconomics, 4/e. Thompson South-Western 2006



Introduction

Thinking like an Economist

- Formulation of an economic problem: "Should I do activity x?"
- Economist's answer: If benefits of doing x overwhelm the costs of doing it

- Formulation of an economic problem: "Should I do activity x?"
- Economist's answer: If benefits of doing x overwhelm the costs of doing it

$$\begin{cases} do \ x & \text{if } B(x) > C(x) \\ don't \ do \ x & \text{otherwise} \end{cases}$$

- Formulation of an economic problem: "Should I do activity x?"
- Economist's answer: If benefits of doing x overwhelm the costs of doing it

$$\begin{cases} do x & \text{if } B(x) > C(x) \\ don't do x & \text{otherwise} \end{cases}$$

Definition

Reservation price of activity x the price at which a person would be indifferent between doing x and not doing x

Example: Should I attend this class?

Benefits: Costs:

Example: Should I attend this class?

Benefits:

- Gaining knowledge
- Meeting friends
- Your ideas?

Example: Should I attend this class?

Benefits:

- Gaining knowledge
- Meeting friends
- Your ideas?

- Getting up early
- Not going to cinema
- €4.60 for a Metro ticket etc.

Example: Should I attend this class?

Benefits:

- Gaining knowledge
- Meeting friends
- Your ideas?

- Getting up early
- Not going to cinema
- €4.60 for a Metro ticket etc.
- Reservation price of attending the class: How much do I have to pay you to get up early and come here?

Example: Should I attend this class?

Benefits:

- Gaining knowledge
- Meeting friends
- Your ideas?

- Getting up early
- Not going to cinema
- €4.60 for a Metro ticket etc.
- Reservation price of attending the class: How much do I have to pay you to get up early and come here?
- Absurd? Economists can make predictions by assuming people act as if they made such calculations



Ceteris Paribus Assumption

- Ceteris paribus a Latin phrase which literally means "all other things kept equal"
- Fundamental to economic analysis!

The Marginal Analysis I

- lacktriangle Recall: Do x if benefits of doing it overwhelm the costs of doing it
- More precisely: Do additional unit of x, if a benefit from doing it overwhelms the additional cost.

The Marginal Analysis I

- lacktriangle Recall: Do x if benefits of doing it overwhelm the costs of doing it
- More precisely: Do additional unit of x, if a benefit from doing it overwhelms the additional cost.

Definition

Marginal benefit – the increase in total benefit that results from carrying out one additional unit of an activity.



The Marginal Analysis I

- lacktriangle Recall: Do x if benefits of doing it overwhelm the costs of doing it
- More precisely: Do additional unit of x, if a benefit from doing it overwhelms the additional cost.

Definition

Marginal benefit – the increase in total benefit that results from carrying out one additional unit of an activity.

Definition

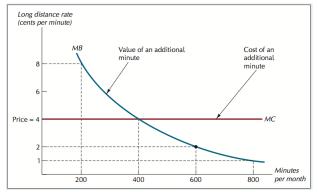
Marginal cost – the increase in total cost that results from carrying out one additional unit of an activity.

The Marginal Analysis II

Optimal decision: continue doing x until the marginal benefit equals the marginal cost!

The Marginal Analysis II

Optimal decision: continue doing x until the marginal benefit equals the marginal cost!



Pitfall 1: Ignoring Implicit Costs

Definition: Opportunity Cost

If doing activity x means not being able to do activity y, then the value to you of doing y (had you done it) is an **opportunity cost** of doing x

Pitfall 1: Ignoring Implicit Costs

Definition: Opportunity Cost

If doing activity x means not being able to do activity y, then the value to you of doing y (had you done it) is an **opportunity cost** of doing x

Should I go to cinema instead of going to work?

Benefits:

■ Watching a movie: €10

■ Meeting friends: €20

Costs:

■ Cinema ticket: €10

Metro ticket: €4.60

Pitfall 1: Ignoring Implicit Costs

Definition: Opportunity Cost

If doing activity x means not being able to do activity y, then the value to you of doing y (had you done it) is an **opportunity cost** of doing x

Should I go to cinema instead of going to work?

Benefits:

- Watching a movie: €10
- Meeting friends: €20

- Cinema ticket: €10
- Metro ticket: €4.60
- Opportunity Cost: Lost earnings: €20



Pitfall 2: Ignoring Sunk Costs

Definition: Sunk Cost

Sunk costs are costs that are beyond recovery at the moment a decision is made

Pitfall 2: Ignoring Sunk Costs

Definition: Sunk Cost

Sunk costs are costs that are beyond recovery at the moment a decision is made

Example: A book that interests you costs €100. It is too expensive for you. You buy the book at a conference for half price, but you lose it on the way back. Would you buy the book again for €50?

Pitfall 3: Measuring Costs and Benefits as Proportions

Example:

Should I go to Media Markt instead of El Corte Inglés to save €10 on a €20 clock?

Should I go to Media Markt instead of El Corte Inglés to save €10 on a €1000 tv set?

Pitfall 3: Measuring Costs and Benefits as Proportions

- Example:
 - Should I go to Media Markt instead of El Corte Inglés to save €10 on a €20 clock?
 - Should I go to Media Markt instead of El Corte Inglés to save €10 on a €1000 tv set?
- In both cases the answer depends on the cost! Not on the fact that in first case we save 50% and in the second 1% of the price!

Pitfall 4: Failure to Understand the Marginal-Average Distinction

The cost-benefit rule tells us to keep increasing the level of an activity as long as its marginal benefit exceeds its marginal cost.

Pitfall 4: Failure to Understand the Marginal-Average Distinction

- The cost-benefit rule tells us to keep increasing the level of an activity as long as its marginal benefit exceeds its marginal cost.
- Average and marginal costs (benefits) are not the same thing!

Pitfall 4: Failure to Understand the Marginal-Average Distinction

- The cost-benefit rule tells us to keep increasing the level of an activity as long as its marginal benefit exceeds its marginal cost.
- Average and marginal costs (benefits) are not the same thing!

Definition

Average cost of undertaking n units of an activity is the total cost of the activity divided by n

Definition

Average benefit of undertaking n units of an activity is the total benefit of the activity divided by n



Example:

Example:

Reduction in tons	Benefit in Mill. €	Cost in Mill. €	AB	AC	MB	MC
100	1,5	3				
200	3	3,1				
300	4	3,7				
400	4,6	4,4				
500	5,3	5,2				
600	5,6	6,0				

Example:

Reduction in tons	Benefit in Mill. €	Cost in Mill. €	AB	AC	MB	MC
100	1,5	3	1,5	3		
200	3	3,1	1,5	1,55		
300	4	3,7	1,33	1,23		
400	4,6	4,4	1,15	1,1		
500	5,3	5,2	1,06	1,04		
600	5,6	6,0	0,93	1		

Example:

Reduction in tons	Benefit in Mill. €	Cost in Mill. €	AB	AC	MB	MC
100	1,5	3	1,5	3	1,5	3
200	3	3,1	1,5	1,55	1,5	0,1
300	4	3,7	1,33	1,23	1	0,6
400	4,6	4,4	1,15	1,1	0,6	0,7
500	5,3	5,2	1,06	1,04	0,7	0,8
600	5,6	6,0	0,93	1	0,3	0,8

Example:

Reduction in tons	Benefit in Mill. €	Cost in Mill. €	AB	AC	MB	MC
100	1,5	3	1,5	3	1,5	3
200	3	3,1	1,5	1,55	1,5	0,1
300	4	3,7	1,33	1,23	1	0,6
400	4,6	4,4	1,15	1,1	0,6	0,7
500	5,3	5,2	1,06	1,04	0,7	0,8
600	5,6	6,0	0,93	1	0,3	0,8

Positive vs. Normative Economics

Definition

Positive Questions – questions about the consequences of specific actions and policies

Positive vs. Normative Economics

Definition

Positive Questions – questions about the consequences of specific actions and policies

Definition

Normative Questions – questions about what actions or policies lead to best (desired) outcomes.

Micro vs. Macroeconomics

- Microeconomics studies decision—making by individuals or group of individuals; studies behavior in particular markets.
- Macroeconomics tries to explain phenomena at a more aggregate level i.e. overall price level, unemployment, output etc.

Micro vs. Macroeconomics

- Microeconomics studies decision—making by individuals or group of individuals; studies behavior in particular markets.
- Macroeconomics tries to explain phenomena at a more aggregate level i.e. overall price level, unemployment, output etc.
- Modern macroeconomics is micro-founded: derives necessary assumptions and results from microeconomic analysis.

Micro vs. Macroeconomics

- Microeconomics studies decision—making by individuals or group of individuals; studies behavior in particular markets.
- Macroeconomics tries to explain phenomena at a more aggregate level i.e. overall price level, unemployment, output etc.
- Modern macroeconomics is micro-founded: derives necessary assumptions and results from microeconomic analysis.
- Put differently: Microeconomists are wrong about specific things whereas macroeconomists are wrong about things in general:)

