FICHA DE AVALIAÇÃO 3 **Álgebra**

Grupo I

1 B **2** C **3** A **4** A

Grupo II

1 3

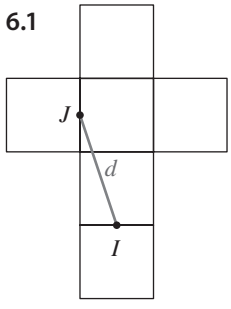
2 **a)** $\sqrt{3}+\frac{5}{2}\sqrt{2}$; **b)** $12-4\sqrt{2}$

3 **a)** $\sqrt[6]{5^7}$; **b)** $\sqrt[15]{\left(\frac{1}{5}\right)^{14}}$

4 **a)** $2^{\frac{2}{3}}$; **b)** $3^{\frac{5}{2}}$

5 **a)** $\frac{\sqrt{2}}{5}$; **b)** $-1-\sqrt{3}$; **c)** $\frac{4\sqrt{2}+2\sqrt{3}}{5}$

6 **6.1**



6.2 $\frac{\sqrt{3}}{3}$

FICHA DE AVALIAÇÃO 4 **Álgebra**

Grupo I

1 B **2** B **3** B **4** B

Grupo II

1 **a)** $x(x-3)(x-2)(x+1)$; **b)** $(x+2)^2(x^2+4x+10)$

2 **a)** $]-\infty, -2] \cup [0, 7]$; **b)** $[-4, -1] \cup [2, 3[$

3 **3.1** Ao cuidado do aluno.

3.2 $x^2 + \frac{3}{2}x - \frac{7}{4}$; $-\frac{9}{8}$

3.3 $\{-2, -1, 1\}$

3.4 $]-2, -1 \cup \left]1, \frac{3}{2}\right[$

4 -3

5 Aplicando a regra de Ruffini, vem:

	1	−4	1	6
2		2	−4	−6
	1	−2	−3	0 = IR
3		3	3	
	1	1	0 = IR	

6 **6.1** -2

6.2 $(x-1)(x+2)(x+1) = 0$

7 1 ; 0 ; -4

8 $x^4 - 4x^3 + 5x^2 - 2x$

9 $a = -1$ e $b = 0$.

10 $-x^3 + 5x^2 - 8x + 4$

11 **11.1** $m = -\frac{1}{2}$

11.2 $P(x) = 2(x-1)(x+1)(x-2)$