

Frente A - Módulo 33

Exercícios de Fixação

- 01 a) (1, 3, 5, 7, 9)
b) (3, 5, 9, 17, 33)
c) (2, 6, 12, 20, 30)
- 02 a) (7, 12, 17, 22, 27)
b) (5, 9, 17, 33, 55)
c) (-3, 3, -3, 3, -3)
- 03 4ª posição
- 04 (1, 1, 2, 3, 5, 8, 13, 21)
- 05 11

Exercícios Complementares

- 01 91 881
- 02 35
- 03 G
- 04 13
- 05 220 palitos
- 06 201
- 07 6

Frente A - Módulo 34

Exercícios de Fixação

- 01 a) 10
b) 3
- 02 $(1, \sqrt{2}, 1^2)$
 $\sqrt{2} - 1 = 1^2 - \sqrt{2}$
 $1^2 - 2\sqrt{2} + 1 = 0 \rightarrow 1(1 - 2\sqrt{2} + 1) = 0$
 $1 = 0$
 $1 - 2\sqrt{2} + 1 = 0 \rightarrow 1 = 2\sqrt{2} - 1$
- 03 a) 123
b) 25
- 04 a) 79
b) 3
- 05 451

Exercícios Complementares

- 01 c
- 02 c
- 03 13
- 04 a = 0,8 e b = -0,8
- 05 c

Frente A - Módulo 35

Exercícios de Fixação

- 01 a) 60
b) 60
c) 90
- 02 -1, 2, 5
- 03 -8, -2, 4, 10
- 04 (4, 7, 10, 13, 16, 19, 22, 25, 28, 31, 34, 37)
- 05 12 termos

Exercícios Complementares

- 01 a) demonstração
b) $2\sqrt{2}$
- 02 d
- 03 1
- 04 E-C-E-C
- 05 b
- 06 d
- 07 d

Frente A - Módulo 36

Exercícios de Fixação

- 01 a) 3 360
b) 35 050
- 02 a) -1
b) 17
- 03 22 travessas
- 04 a) 103 poltronas
b) 2 560

Exercícios Complementares

- 01 d
- 02 d
- 03 5 050 cubos
- 04 R\$ 165,00

Frente A

Exercícios de Aprofundamento

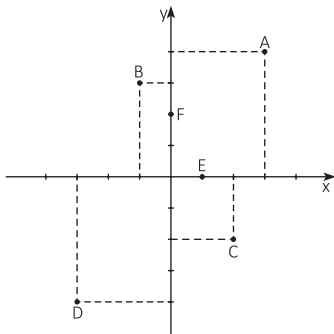
- 01 a) (-5, 8, -11, 14, -17, 20)
b) -3 014
- 02 b
- 03 b
- 04 e
- 05 a
- 06 c
- 07 a
- 08 64
- 09 2 420 cartas

Frente B - Módulo 33

Exercícios de Fixação

- 01 A e F pertencem ao 1º quadrante; E pertence ao 3º quadrante
- 02 a) $\{m \in \mathbb{R} \mid -2 < m < -1\}$
b) $\{-2, 4\}$
- 03 b

04



05 a

Exercícios Complementares

- 01 a
- 02 e
- 03 (6, 6)
- 04 c
- 05 b
- 06 b

Frente B - Módulo 34

Exercícios de Fixação

- 01 a) 13
b) 10
- 02 a) (-1, 4)
b) 4 u.a.
- 03 b
- 04 $P(87/10, 0)$
- 05 b

Exercícios Complementares

- 01 2,3
- 02 a
- 03 a) 20
b) acutângulo
- 04 b

Frente B - Módulo 35

Exercícios de Fixação

- 01 a) (-1, 5)
b) $(-1/4, 9/4)$
- 02 a) (2, 3)
b) $\sqrt{130}$
- 03 C(0, 1); D(-1, 3) e E(-2, 5)
- 04 b
- 05 d

Exercícios Complementares

- 01 a
- 02 d
- 03 b
- 04 e
- 05 a) $AB = 3\sqrt{2}$
b) C(3; 4)

Frente B - Módulo 36

Exercícios de Fixação

- 01 a) são colineares
b) não são colineares
c) são colineares
d) não são colineares
- 02 c
- 03 e
- 04 a
- 05 6 unidades de área

Exercícios Complementares

- 01 (2, 5)
- 02 e
- 03 c
- 04 b
- 05 12
- 06 a
- 07 c

Frente B

Exercícios de Aprofundamento

- 01 c
- 02 a
- 03 a) $P(4, 3)$
b) 50 km²
- 04 c
- 05 16
- 06 B3, 4, 3
- 07 C(-8, 3)
- 08 a
- 09 (3, 7); (-1, -3) e (3, 1)
- 10 c
- 11 $2 + \frac{5\sqrt{2}}{2}$
- 12 a
- 13 b
- 14 b
- 15 e
- 16 e
- 17 d
- 18 c
- 19 c
- 20 e

Frente C - Módulo 33

Exercícios de Fixação

- 01 a) $S = \{\pm 7i\}$
b) $S = \{4 \pm 3i\}$
c) $S = \{-1 \pm 2i\}$
- 02 a) $m = -4$
b) $m = 4$
- 03 a) $a = -5$ e $b = 9$
b) $a = 2$ e $b = 5$
c) $a = -3$ e $b = 5/2$
- 04 a) i
b) -i
c) -2
d) 32i

- 05 i
06 $1 - i$

Exercícios Complementares

- 01 c
02 a
03 a
04 b
05 $6 + 2i$ e $6 - 2i$
06 $S = \{2, -1 \pm \sqrt{3}i\}$
07 a) $(a^3 - 3a) + (3a^2 - 1)i$
b) $S = \{0, \pm\sqrt{3}\}$
08 c

Frente C - Módulo 34

Exercícios de Fixação

- 01 a) $6 - 3i$
b) $-13 - 12i$
c) $22 + 7i$
d) $-27 - 14i$
02 a) $\frac{16}{13} - \frac{15}{13}i$
b) $\frac{7}{2} - \frac{3}{2}i$
c) $\frac{3}{5} - \frac{11}{5}i$
03 $z = \frac{x+3}{10} + \left(\frac{3x-1}{5}\right)i$

Exercícios Complementares

- 01 c
02 b
03 $z = 6 + 4i$
04 e
05 d
06 C-E-E-C-E
07 a) Para todo n natural múltiplo de 4;
b) Para todo natural ímpar.
08 c

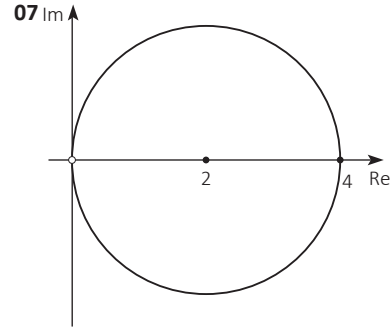
Frente C - Módulo 35

Exercícios de Fixação

- 01 $z_1 = 4 + 2i, z_2 = 4i, z_3 = -4 + 5i, z_4 = -5, z_5 = -2 - 5i, z_6 = -2i$ e $z_7 = 6 - 4i$
02 a) $\sqrt{7}$
b) 5
c) $2\sqrt{13}$
d) 7
03 a) 30°
b) 135°
c) 240°
d) 90°

Exercícios Complementares

- 01 d
02 e
03 d
04 20
05 c
06 a) (16, 16)
b) $16\sqrt{2}$



08 d

Frente C - Módulo 36

Exercícios de Fixação

- 01 $3\left(\cos\frac{\pi}{3} + i\text{sen}\frac{\pi}{3}\right)$
02 a) $6(\cos 0^\circ + i \text{sen } 0^\circ)$
b) $2(\cos 90^\circ + i \text{sen } 90^\circ)$
c) $4(\cos 60^\circ + i \text{sen } 60^\circ)$
d) $2(\cos 210^\circ + i \text{sen } 210^\circ)$
03 a) $3\left(\cos\frac{\pi}{3} + i\text{sen}\frac{\pi}{3}\right)$
b) $2\sqrt{3} - 2i$
c) $-3 + 3\sqrt{3}i$
d) $-7 + 0i$
04 a) $18(\cos 210^\circ + i \text{sen } 210^\circ)$
b) $3(\cos 160^\circ + i \text{sen } 160^\circ)$
c) $9(\cos 80^\circ + i \text{sen } 80^\circ)$
d) $1,5(\cos 150^\circ + i \text{sen } 150^\circ)$
05 a

Exercícios Complementares

- 01 a
02 e
03 a
04 a
05 a
06 c
07 a
08 e

Frente C

Exercícios de Aprofundamento

- 01 $\frac{9}{10}$
02 a) $-1, -i, 1, i, -1, -i, 1, i, -1, -i, 1, i, -1, -i, 1$
b) É mágico
c) Zero
03 $3 + 2i$ e $-3 + 2i$
04 $-1 + i$
05 40
06 -5 e $3 + 4i$
07 d
08 a
09 b
10 b
11 c
12 d
13 c

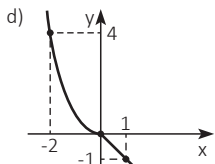
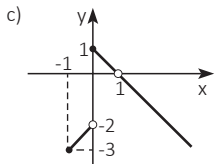
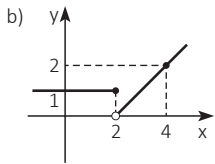
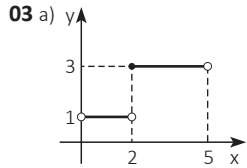
- 14 b
- 15 c
- 16 a
- 17 e

Frente D - Módulo 33

Exercícios de Fixação

- 01 a) R\$ 18,00
b) R\$ 57,00
- c) $y = \begin{cases} 4,5x, \text{sex } 8 \\ 3,5x, \text{sex } 8 \end{cases}$

02 22

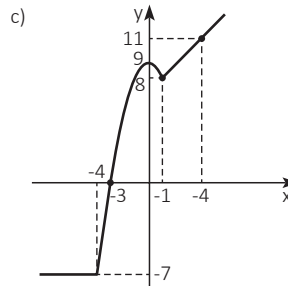
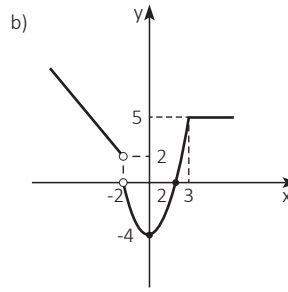
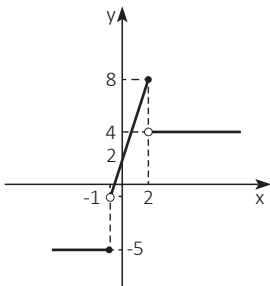


- 04 a) $f(x) = \begin{cases} 4, \text{sex } \leq 3 \\ x+1, \text{sex } > 3 \end{cases}$
- b) $f(x) = \begin{cases} -x+3, \text{sex } < 1 \\ x+2, \text{sex } \geq 1 \end{cases}$

05 e

Exercícios Complementares

- 01 c
- 02 b
- 03 a)



- 04 d
- 05 a
- 06 a) R\$ 49,50
b) 6 unidades

Frente D - Módulo 34

Exercícios de Fixação

- 01 a) 6
b) 4
c) 11
d) -5.
- 02 a) 2
b) 3.
- 03 a) 5
b) 17
c) -2.
- 04 a) $x - 5$
b) $-3x - 12$
c) $2x - 1$.
- 05 E-C-E-E-C

Exercícios Complementares

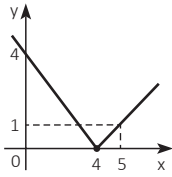
- 01 V-V-F-F-V
- 01 e
- 02 c
- 03 a) $-2x + 7$
b) 7
c) $2x - 7$
- 04 a) $3x$
b) $-3x$
c) $-x + 9$
- 05 c
- 06 d

Frente D - Módulo 35

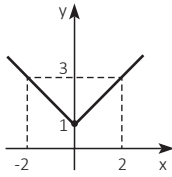
Exercícios de Fixação

- 01 a) 30 unidades
b) 10 unidades ou 50 unidades

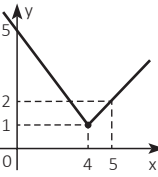
02 a)



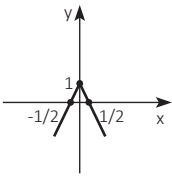
b)



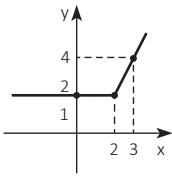
c)



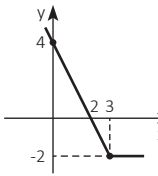
03 a)



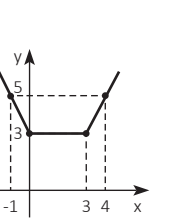
b)



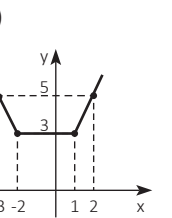
c)



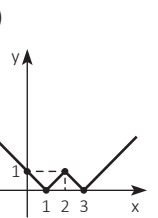
04 a)



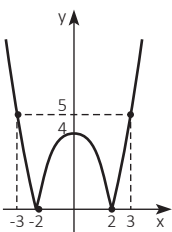
b)



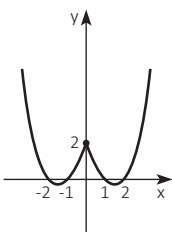
c)



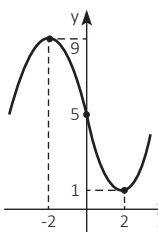
05 a)



b)

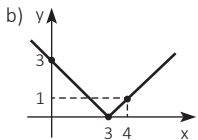


c)



Exercícios Complementares

01 a) $2\sqrt{2}$



02 a) demonstracão

b) $S = \{-3, -1\}$

03 b

04 e

05 b

06 a = 1 e b = 3

07 c

08 E-C-E-C

Frente D - Módulo 36

Exercícios de Fixação

01 a) $S = \{2, 14\}$

b) $S = \{-1, 4\}$

c) $S = \{\pm 1, 5, 7\}$

02 a) $S = \{-5/4, -1/2\}$

b) $S = \emptyset$

c) $S = \{\pm 2, \pm 3\}$

03 a) $S = \{-10, -2, 6, 14\}$

b) $S = \{\pm 2, \pm 5\}$

c) $S = \{\pm 7\}$

04 a) $S = \{1\}$

b) $S = \{-4, 1, 3, 8\}$

05 a) $S = \{-4, 3\}$

b) $S = \{-2, 6\}$

06 $5/3$

Exercícios Complementares

01 5

02 a) $S = \{-5, -7/3\}$

b) $S = \{\pm 12\}$

03 $S = \{1/2, 3/4\}$

04 a) $S = \{1\}$

b) $S = [-1, 0]$

05 50 e 250

06 11

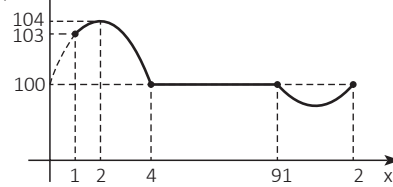
07 5,098

Frente D

Exercícios de Aprofundamento

01 d

02 a) $f(x)$

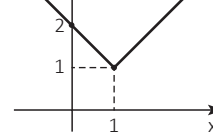


b) 100,5

03 c

04 d

05 a)



b) 5,5 ua

06 e

07 10 h e 11 h

08 a