

Pág 119, 1, 2e, 3b

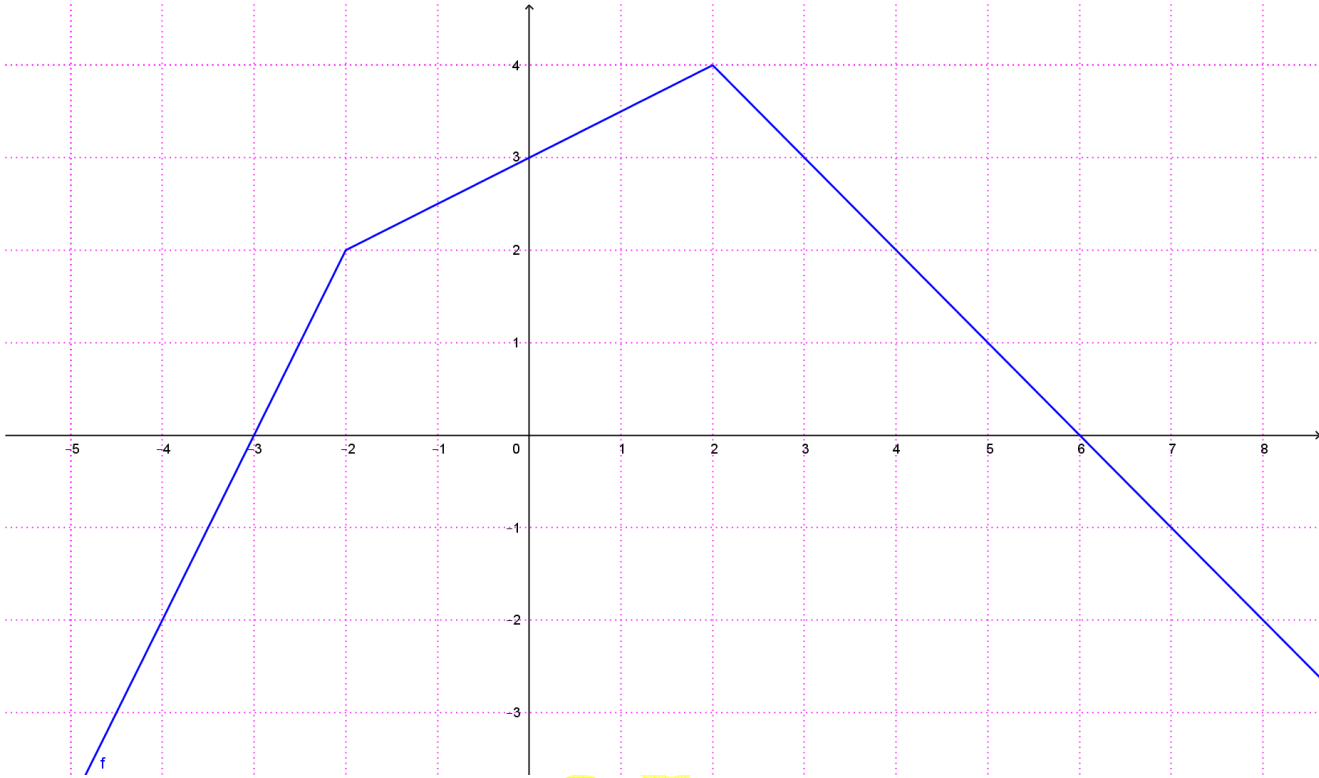
D)

$$y = \begin{cases} 2x+6 & \text{si } x < -2 \\ \frac{x}{2}+3 & \text{si } -2 \leq x < 2 \\ -x+6 & \text{si } x \geq 2 \end{cases}$$

x	2x+6
-2	2
-4	-2

x	$\frac{x}{2}+3$
-2	2
0	3
2	4

x	-x+6
2	4
4	2



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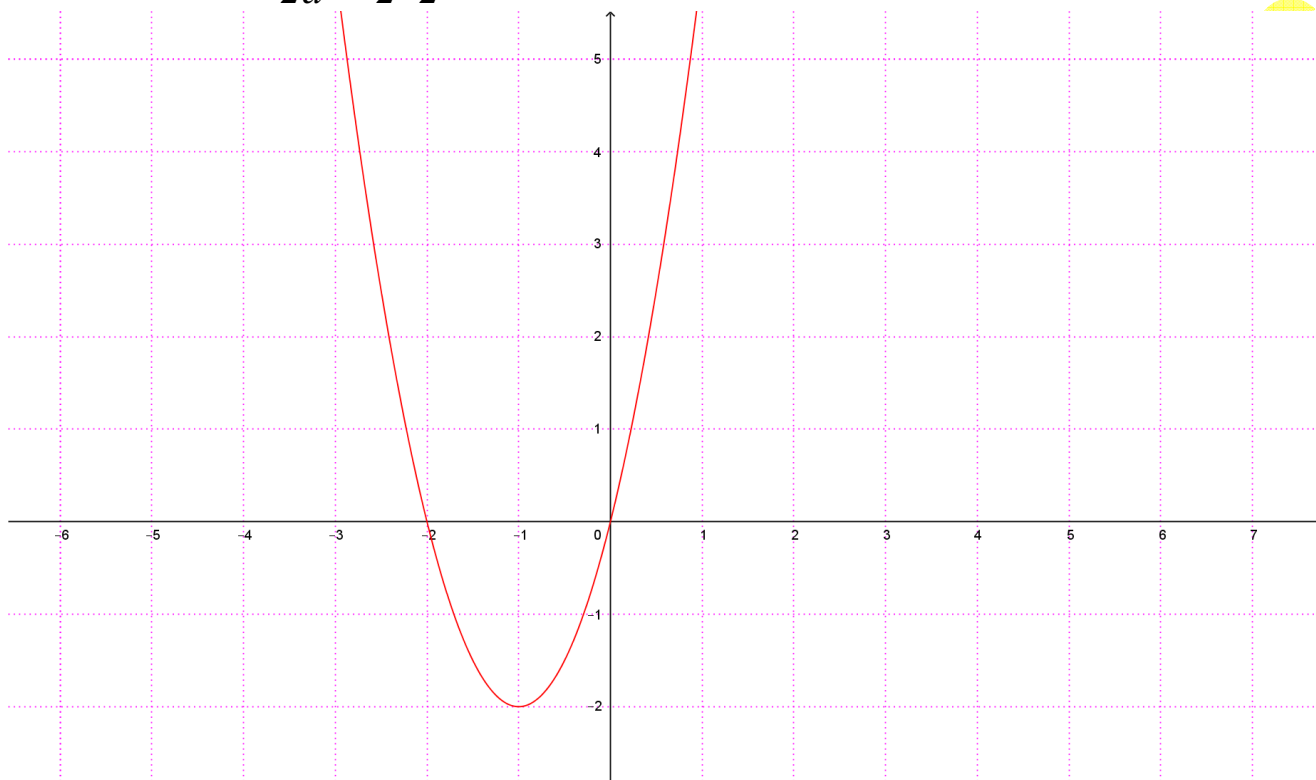
2 e)

$$y = 2x^2 + 4x$$

$$x = 0; \quad y = 2 \cdot 0^2 + 4 \cdot 0 = 0 \quad (0,0)$$

$$y = 0; \quad 2x^2 + 4x = 0; \quad 2x(x+2) = 0 \begin{cases} 2x = 0; & x = 0 & (0,0) \\ x + 2 = 0; & x = -2 & (-2,0) \end{cases}$$

$$\text{Vértice} \quad x = \frac{-b}{2a} = \frac{-2}{2 \cdot 2} = -1; \quad y = 2(-1)^2 + 4(-1) = -2 \quad (-1,-2)$$

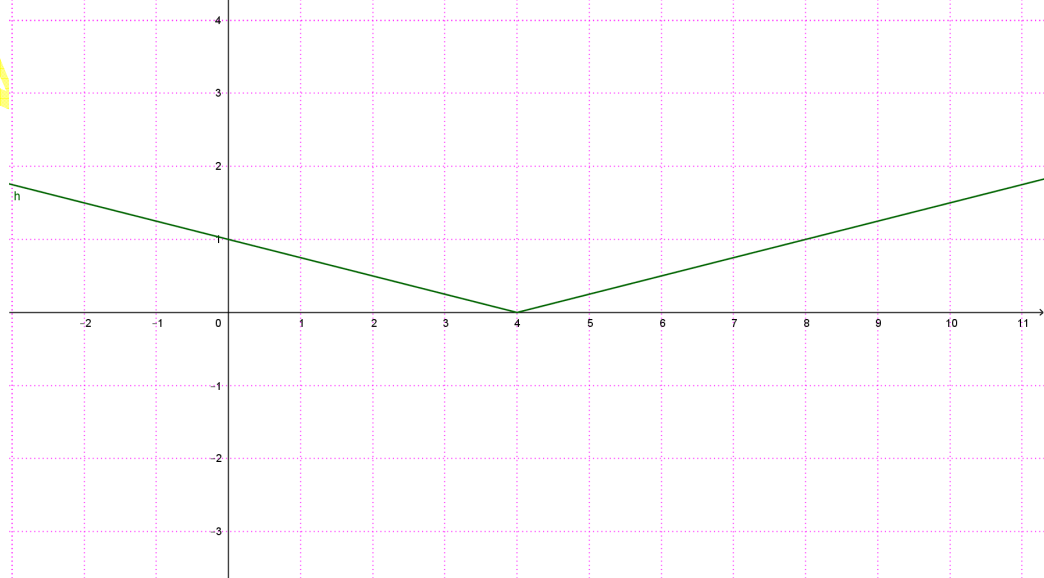


3 b)

$$y = \left| 1 - \frac{x}{4} \right|$$

$$y = 1 - \frac{x}{4}$$

x	$1 - \frac{x}{4}$
0	1
4	0

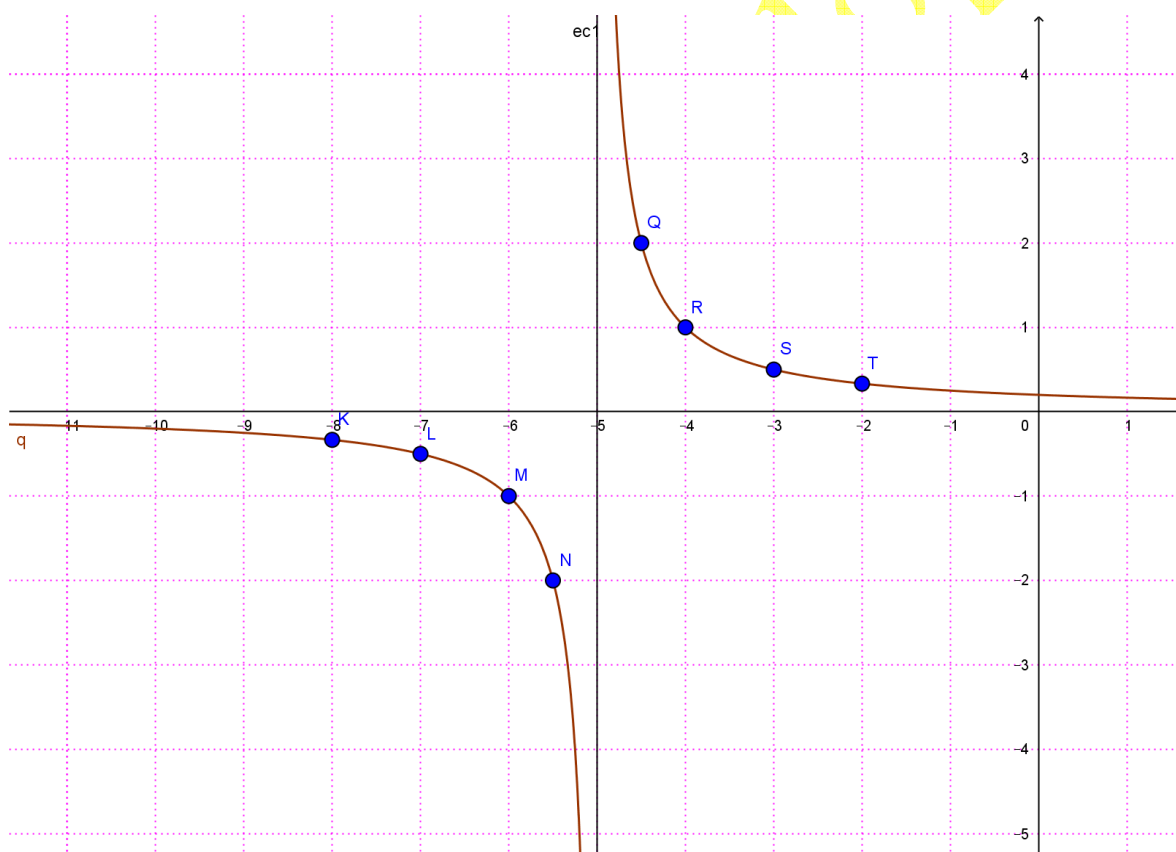


$$y = \frac{1}{x+5}$$

$$x+5=0; \quad x=-5$$

$$\text{Dom } y = \mathbb{R} - \{-5\}$$

x	$\frac{1}{x+5}$
-8	-0'3333
-7	-0'5
-6	-1
-5'5	-2
-5'1	-10
-4'8	5
-4'5	2
-4	1
-3	0'5
-2	0'3333



e)

$$y = 2\sqrt{x-1}$$

$$x-1 \geq 0; \quad x \geq 1 \quad \text{Dom } y = [1, +\infty)$$

$x$	$y = 2\sqrt{x-1}$
1	0
2	2
3	2'82
4	3'46

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