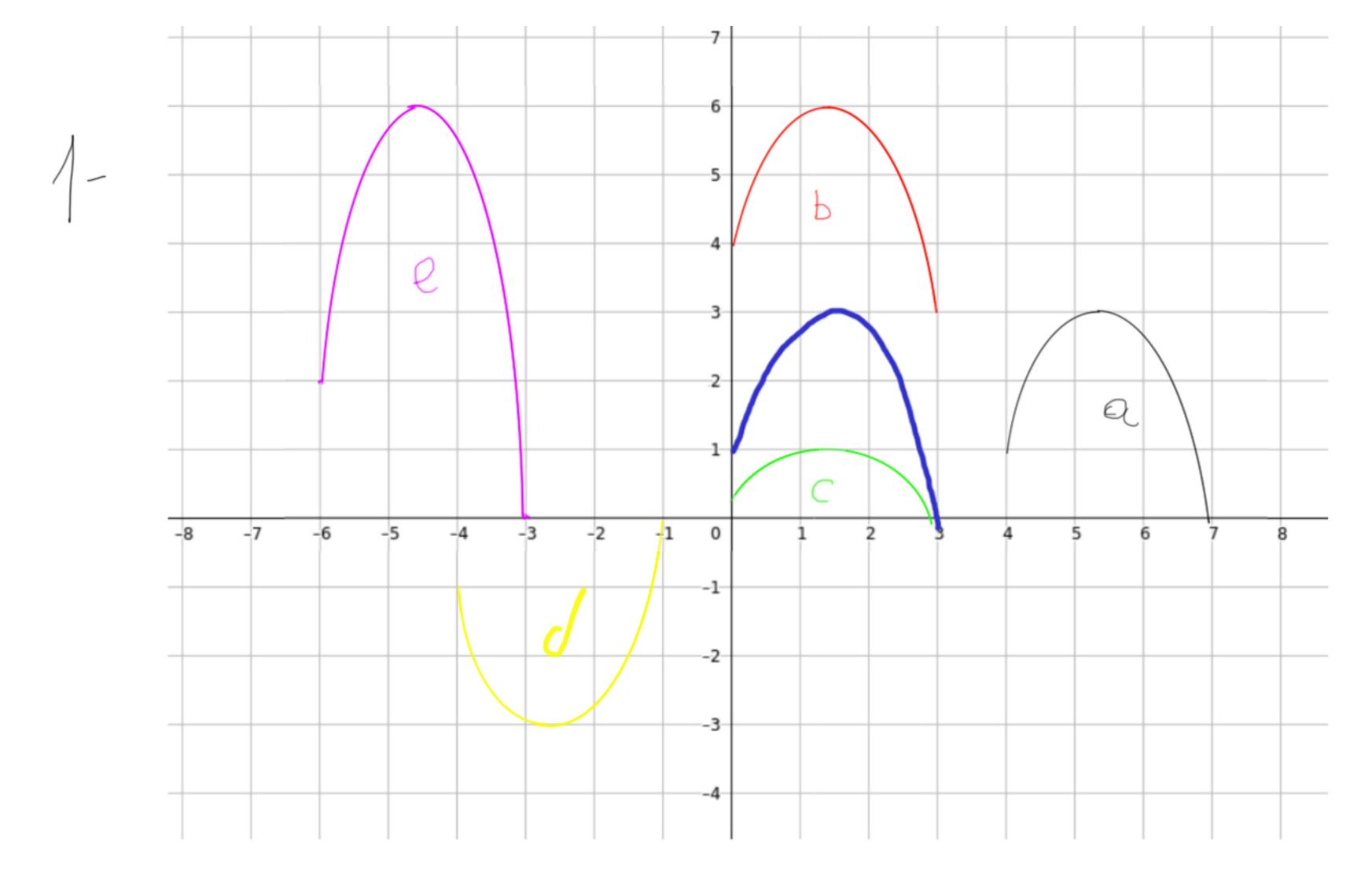
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$$2 - o_{L}) \qquad \chi(x) = 4x^{2} + 4x + 1 + 6 = (2x + 1)^{2} + 6 \Rightarrow 9(x)$$

$$\chi(x) = x^{2} + 6$$

b)
$$\lambda(x) = 4x + 16 - 17 = 4(x+4) - 17 > 1(x)$$

 $g(x) = 4x - 17$

$$O_{X}(x) = \frac{2}{x+4}$$

$$(2) \times^{2} + (y-2)^{2} = 4$$

$$\text{centro i} C(0;2) \text{ de rais } 2$$

$$(y-2)^{2} = 4-x^{2}$$

$$y-2=\sqrt{4-x^{2}}$$

$$y=\pm\sqrt{4-x^{2}}+2$$

$$y=-\sqrt{4-x^{2}}+2$$

$$y=-\sqrt{4-x^{2}}+2$$

b)
$$A = \underbrace{l \cdot \text{NenbO} \cdot l}_{Z} = \underbrace{\frac{\sqrt{3}}{2} \cdot l^{2}}_{Z} = \underbrace{\frac{l^{2}\sqrt{3}}{4}}_{Z}$$

$$\begin{cases} (x) = x^2 \sqrt{3} \\ 4 \end{cases}$$

$$S = \{ \times \in \mathbb{R} \mid x > 0 \}$$

c) Primeiro função:
$$y-y_0=m\cdot(x-x_0)$$
 $y-1=-1\cdot(x-(-3))$

$$1-z=m\cdot(-3-(-4))$$

$$y=-x-2$$

$$-1=m\cdot 1$$

$$m=-1$$

segundo função: $(x^2-0)+(y^2-0)=2^2$ (circumferêncio) $y^2=4-x^2$ $y=4\sqrt{4-x^2}$

terciro função: 3-0 = m. (3-2) m=3

$$y - 0 = 3.(x - 2)$$

 $y = 3x - 6$

$$\int : [-5,3] \longrightarrow \mathbb{R}, \text{ if dads por}$$

$$\int (x) = \begin{cases} y = -x - 2, \text{ pero } -5 \leqslant x \leqslant -2 \\ y = \sqrt{4-x^2}, \text{ pero } -2 \leqslant x \leqslant 2 \\ y = 3x - 6, \text{ pere } 2 \leqslant x \leqslant 2 \end{cases}$$

$$4 - \frac{1}{|3x-8|} > 20$$

Cose
$$3x-8>0$$

$$\frac{1}{3x-8}>20 \Rightarrow 1>60x-160$$

$$S: \{x \in \mathbb{R} \mid \frac{53}{20}; \frac{8}{3} [U] \frac{8}{3}; \frac{161}{60} [$$

$$\frac{161}{60} > 60x$$

$$\frac{161}{60} > x$$

$$x \neq \frac{8}{3}$$

$$\frac{1}{(3 \times -8)} > 20 \implies \frac{1}{3 \times +8} > 20 \implies 1 > -60 \times +160$$

$$-139 > -60 \times$$

$$159 < 60 \times \implies \frac{159}{60} < x \implies \frac{53}{20} < x$$