

1-)

$$A_{TOTAL} = 80 \text{ cm}^2$$

$$l = 3 \text{ cm}$$

$$2A_{BASE} = 2x$$

$$A_{LATERAL} = 4 \cdot 3x = 12x$$

$$80 = 2x^2 + 12x$$

$$2x^2 + 12x - 80 = 0$$

$$\Delta = 12^2 - 4 \cdot 2 \cdot -80$$

$$\Delta = 784$$

$$x_1 = \frac{-12 \pm 28}{4} = 4 \text{ cm} //$$

$$x_{II} = \frac{-12 - 28}{4} = -10$$

$$2 \cdot A_{BASE} = 24\sqrt{3} \text{ cm}^2$$

$$l = 2\sqrt{3}$$

$$BASE \Rightarrow 24\sqrt{3} = \frac{3l^2\sqrt{3}}{2}$$

$$48\sqrt{3} = 3l^2\sqrt{3}$$

$$48\sqrt{3} = l^2\sqrt{3}$$

$$16\sqrt{3} = l^2\sqrt{3}$$

$$l^2 = \frac{16\sqrt{3}}{\sqrt{3}} \Rightarrow l^2 = 16$$

$$l = \sqrt{16} \Rightarrow 4 //$$

$$A_{LAT} = 6 \cdot l \cdot h$$

$$A_{LAT} = 6 \cdot 4 \cdot 2\sqrt{3}$$

$$A_{LAT} = 48\sqrt{3} \text{ cm}^2 //$$

3-

$$m = \sqrt{3}$$

$$R = 2$$

$$l = 2$$

$$A_{BASE} = \frac{3l^2\sqrt{3}}{2} \Rightarrow \frac{3 \cdot 4\sqrt{3}}{2} \Rightarrow 6\sqrt{3} //$$

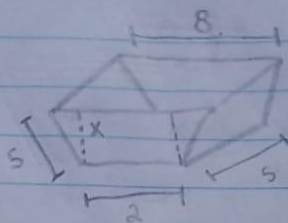
$$A_{LAT} = 6 \cdot 2\sqrt{3} \Rightarrow 12\sqrt{3} //$$

$$A_{TOTAL} = 2 \cdot 6\sqrt{3} + 12\sqrt{3} \Rightarrow 24\sqrt{3} //$$

LETRA(B)

4-

(-1)



$$B = 8m$$

$$h_{PRISMA} = 5m$$

$$h = 2m$$

$$x^2 + 4 = 25$$

$$x^2 = 16$$

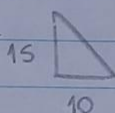
$$x = 4$$

$$A_{TRAPÉZIO} = \frac{(8+2) \cdot 4}{2} = 20 \quad \left| \quad 20 \cdot 5 = 100m^3 \right.$$

LETRA (D)

5-

-6



$$\frac{15 \cdot 10}{2} = 75 \Rightarrow 75 \cdot 10 = 750m^3$$

LETRA (C)

$$6- \text{BASE} = x \cdot y$$

$$h = z$$

$$h_{TOTAL} = 4x^2$$

$$z = 2y$$

$$A_{TOTAL} = 2ab + 2ac + 2bc$$

$$4x^2 = 2xy + 2xz + 2yz$$

$$2 \cdot 4x^2 = 2(xy + xz + yz)$$

$$2x^2 = xy + xz + yz$$

$$2x^2 = xy + x(2y) + y(2y)$$

$$2x^2 = 3xy + 2y^2$$

$$z = 2 \cdot \frac{x}{2} \rightarrow x$$

$$Vol = x \cdot y \cdot z$$

$$Vol = x \cdot x \cdot \frac{x}{2}$$

$$Vol = \frac{x^3}{2}$$

LETRA (C)

$$2y^2 + 3xy - 2x^2$$

$$\Delta = (3)^2 - 4 \cdot 2 \cdot -2 \rightarrow$$

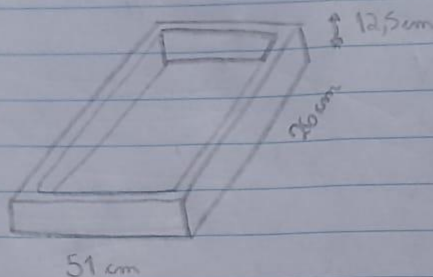
$$\Delta = 25$$

$$y_1 = \frac{-3 \pm 5}{4} = -2$$

$$y_{II} = \frac{-3 \pm 5}{4} = \frac{2}{4} = \frac{x}{2}$$

Paralelepipedos

①



$$A_{TOTAL} = 51 \cdot 26 \cdot 12,5$$

$$A_{INTERNA} = (51 - 2 \cdot 0,5) \cdot$$

$$(26 - 2 \cdot 0,5) \cdot (12,5 - 0,5)$$

$$A_{INTERNA} = \frac{50 \cdot 25 \cdot 12}{100 \cdot 100 \cdot 100}$$

$$A_{INTERNA} = 0,015 \text{ m}^2 //$$

LETRA (A)

2-



$$A_{FACE} = \frac{72 \text{ m}^2}{6} \Rightarrow 12 \text{ m}^2$$

$$\text{Lado} = \sqrt{12} \Rightarrow 2\sqrt{3}$$

$$\text{DIAGONAL} = 2\sqrt{3} \cdot \sqrt{3} = 6 //$$

LETRA (B)

3-

$$1 \text{ m}^3 = 1000 \text{ L}$$

$$0,5^3 = 0,125$$

$$0,125 \cdot 1000 = 125 \text{ L} //$$

LETRA (A)

$$50 \text{ cm} \rightarrow 0,5 \text{ m}$$



50 cm

$$4 - \text{ca} = 1 \text{ m}$$

$$\text{Vol} = \text{ca}^3$$

$$\text{Vol} = 1 \text{ m}^3$$

$$\text{Vol em L}$$

$$\text{VL} = 1 \cdot 1000$$

$$\text{VL} = 1000 \rightarrow -12 \rightarrow 999 \text{ L}$$

$$1 \text{ m} - 1000 \text{ L}$$

$$(1 \text{ m} - x) - 999 \text{ L}$$

$$999 \text{ L} \cdot 1 \text{ m} = 1000 \text{ L} (1 \text{ m} - x)$$

$$999 = 1000 - 1000x$$

$$-1000x = -1$$

$$x = \frac{1}{1000} \Rightarrow$$

$$x = 0,001 \text{ m} //$$

1000

FORONI

5-

$$V = h \cdot 2c \cdot 2L$$

$$V = h \cdot 4cL$$

$$4(h \cdot c \cdot L) = 4V$$

LETRA (C) //

6-

$$(4\sqrt{3})^3 = 192\sqrt{3}$$

$$\frac{4\sqrt{3} \cdot \sqrt{3}}{2} = 6$$

$$\frac{4\sqrt{3} \cdot 6}{2} = 12\sqrt{3}$$

$$A_0 = 12\sqrt{3}$$

$$A_{prisma} = \frac{192\sqrt{3}}{12\sqrt{3}} = 16$$

$$A_{prisma} = 24\sqrt{3} + 4\sqrt{3} \cdot 16 \cdot 3$$

$$A_{prisma} = 216\sqrt{3} //$$

LETRA (D)