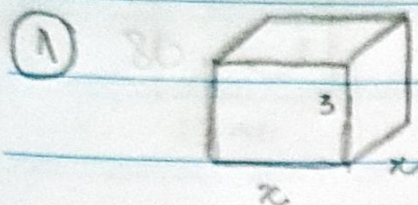


Tarifa Básica



$$80 = 2x^2 + 3x \cdot 4$$
$$2x^2 + 12x - 80 = 0$$

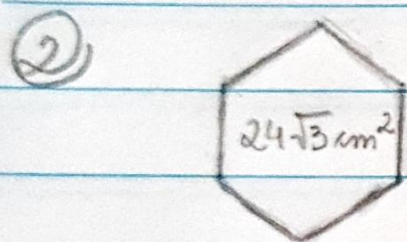
$$\Delta = 144 - 4 \cdot 2 \cdot -80$$

$$\Delta = 784$$

$$x = \frac{-12 \pm 28}{4}$$

$$x' = \frac{-40}{4} = -10$$

$$x'' = \frac{16}{4} = \underline{\underline{4 \text{ m}}}$$



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

$$A_{\text{LATERAL}} = 6 \cdot (2\sqrt{3} \cdot 4)$$

$$A_{\text{LATERAL}} = 6 \cdot 8\sqrt{3}$$

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

$$24\sqrt{3} = \frac{6 \cdot l^2 \sqrt{3}}{4}$$

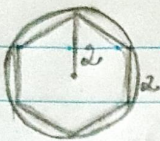
$$96\sqrt{3} = 6l^2\sqrt{3}$$

$$l^2 = \frac{96\sqrt{3}}{6\sqrt{3}}$$

$$l^2 = 16$$

$$l = 4 \text{ cm}$$

③



$$d = \sqrt{3}$$

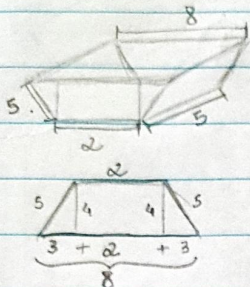
$$A_T = 2 \cdot \frac{6 \cdot 2^2 \sqrt{3}}{4} + 6 \cdot (2 \cdot \sqrt{3})$$

$$A_T = 12\sqrt{3} + 12\sqrt{3}$$

$$A_T = 24\sqrt{3}$$

Alternativa B

④



$$V = \left(\frac{(8+2) \cdot 4}{2} \right) \cdot 5$$

$$V = 40 \cdot 5$$

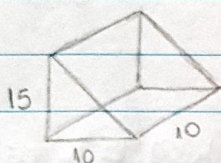
$$2$$

Alternativa D

$$V = 20 \cdot 5$$

$$V = 100$$

⑤



$$V = \left(\frac{15 \cdot 10}{2} \right) \cdot 10$$

$$V = 75 \cdot 10$$

$$V = 750 \text{ cm}^3$$

Alternativa C

⑥ $A_T = 4\pi^2$

$$z = 2y$$

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

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

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

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

$$2y^2 + 3xy - 2x^2 = 0$$

$$\Delta = 9x^2 - 4 \cdot 2 \cdot -2x^2$$

$$\Delta = 9x^2 + 16x^2$$

$$\Delta = 25x^2$$

$$y = \frac{-3x \pm 5x}{4}$$

$$y' = \frac{-8x}{4} = -2x$$

$$y'' = \frac{-2x}{4} = \left(\frac{x}{2} \right)$$

$$V = x \cdot y \cdot z$$

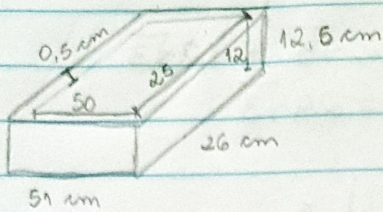
$$V = x \cdot x \cdot 2x$$

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

Alternativa C

Tarefa Básica

①



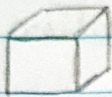
$$V_{\text{INTERNO}} = 50 \cdot 25 \cdot 12$$

$$V_{\text{INTERNO}} = 0,5 \cdot 0,25 \cdot 0,12$$

$$V_{\text{INTERNO}} = 0,015 \text{ m}^3$$

Alternativa (A)

②



$$A_T = 72 \text{ m}^2$$

$$72 = 6a^2$$

$$12 = a^2$$

$$a = 2\sqrt{3} \text{ m}$$

$$\begin{array}{r|l} 12 & 2 \\ 6 & 2 \\ 3 & 3 \\ 1 & \end{array}$$

$$D = 2\sqrt{3} \cdot \sqrt{3} = 2 \cdot 3 = 6 \text{ m}$$

Alternativa (B)

③



50 cm

$$V = 50^3$$

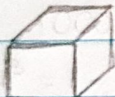
$$V = 125000 \text{ cm}^3$$

$$1 \text{ m}^3 = 1000 \text{ L} \quad \pi = 125 \text{ L}$$

$$0,125 \quad \pi$$

(A)

④



1 m

$$V = 1^3$$

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

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

$$\pi = 1 \text{ L}$$

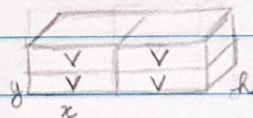
$$1000 \pi = 1$$

$$\pi = 0,001 \text{ m}$$

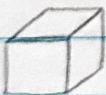
⑤

$V = \text{volume de 1}$

$4V = \text{volume dos 4}$



⑥



$$\rightarrow V = 4\sqrt{3} \cdot 4\sqrt{3} \cdot 4\sqrt{3}$$

$$V = 16 \cdot 3 \cdot 4\sqrt{3}$$

$$V = 192\sqrt{3} \text{ cm}^3$$



$4\sqrt{3} \text{ cm}$

$$A_{\Delta} = \frac{(4\sqrt{3})^2 \sqrt{3}}{4}$$

4

$$A_{\Delta} = \frac{48\sqrt{3}}{4} = 12\sqrt{3} \text{ cm}^2$$

4

$$192\sqrt{3} = 12\sqrt{3} \cdot h$$

$$h = \frac{192\sqrt{3}}{12\sqrt{3}} = 16 \text{ cm}$$

$$A_T = 2 \cdot 12\sqrt{3} + 3 \cdot 16 \cdot 4\sqrt{3}$$

$$A_T = 24\sqrt{3} + 192\sqrt{3}$$

$$A_T = 216\sqrt{3} \text{ cm}^2$$

Alternative (D)