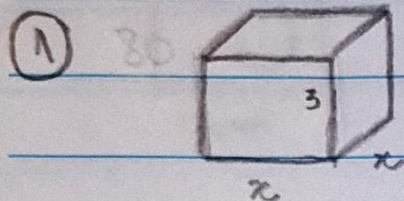


# Tarefa Básica



$$80 = 2x^2 + 3x \cdot 4$$

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

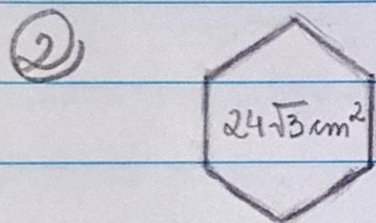
$$\Delta = 144 - 4 \cdot 2 \cdot -80$$

$$\Delta = 784$$

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

$$x' = -40 = -10$$

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



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

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

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

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

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

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

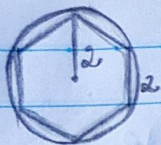
$$l^2 = \frac{96\sqrt{3}}{6\sqrt{3}}$$

$$l^2 = 16$$

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



③



$$d = \sqrt{3}$$

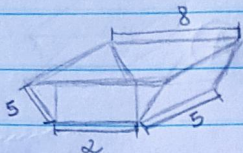
$$A_T = 2 \cdot \frac{6 \cdot 2^2 \sqrt{3}}{4} + 6 \cdot (2 \cdot \sqrt{3})$$

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

Alternativa B

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

④



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

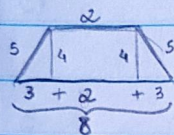
$$V = 40 \cdot 5$$

$$2$$

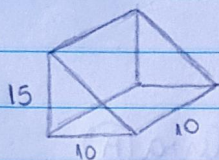
Alternativa D

$$V = 20 \cdot 5$$

$$V = 100$$



⑤



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

Alternativa C

$$V = 75 \cdot 10$$

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

⑥

$$A_T = 4x^2$$

$$z = 2y$$

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

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

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

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

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

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

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

$$\Delta = 25x^2$$

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

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

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

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

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

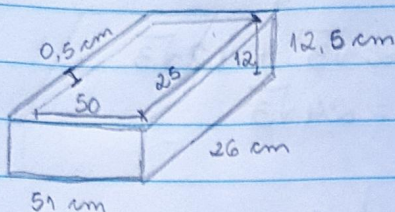
$$y'' = \frac{2x}{4} = \frac{x}{2}$$

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



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

$$72 = 6a^2$$

$$12 = a^2$$

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

|    |   |
|----|---|
| 12 | 2 |
| 6  | 2 |
| 3  | 3 |
| 1  |   |

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

Alternativa B

③



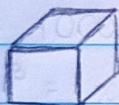
$$5 \text{ cm} = 0,05 \text{ m}$$

$$V = 5 \cdot 5 \cdot 5$$

$$V = 125 \text{ L}$$

Alternativa A

④



$$1 \text{ m}$$

$$V = 1^3$$

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

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

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

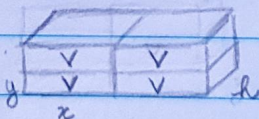
$$1000x = 1$$

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

⑤

$V = \text{volume de 1}$

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



⑥



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

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

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



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

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

$$4$$

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

$$4$$

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

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

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

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

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

Alternativa (D)