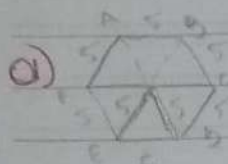


Tarefa Básica - Área do Polígono



Hexágono - 6 lados iguais

$$x^2 = 5^2 + 5^2$$

$$50 \mid 2$$

$$x^2 = 50$$

$$25 \mid 5$$

$$x = \sqrt{50}$$

$$5 \mid 5$$

$$x = 5\sqrt{2} \text{ cm}$$

$$A_{ABCD} = A_{ADE} + A_{BCF} + A_{ABCD}$$

$$A_{ABCD} = 25 + 25\sqrt{2}$$

$$A_{ABCD} = 25(1 + \sqrt{2}) \text{ cm}^2$$

$$A_{ADE} = A_{BCF} = \frac{5 \cdot 5}{2} = 25 \text{ cm}^2$$

R: (C)

$$A_{ABCD} = 5 \cdot 5\sqrt{2} = 25\sqrt{2} \text{ cm}^2$$

02) $h_{\Delta} = d_{\Delta} = 4\sqrt{3}$

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

$$64 = l^2$$

$$A_{\Delta} = 16\sqrt{3}$$

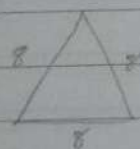
$$4$$

$$l = \sqrt{64}$$

$$A_{\Delta} = 9$$

$$16\sqrt{3} = \frac{l^2 \sqrt{3}}{4}$$

$$l = 8$$



$$\frac{64\sqrt{3}}{\sqrt{3}} = l^2$$

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

$$d_{\Delta} = \frac{l\sqrt{3}}{2}$$

$$A_{\Delta} = \frac{l^2}{4}$$

$$4\sqrt{3} = \frac{l\sqrt{3}}{2}$$

$$A = (2\sqrt{6})^2$$

$$h = \frac{8\sqrt{3}}{2}$$

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

$$A = 4 \cdot 6$$

$$A = 24 \text{ m}^2$$

R: (B)

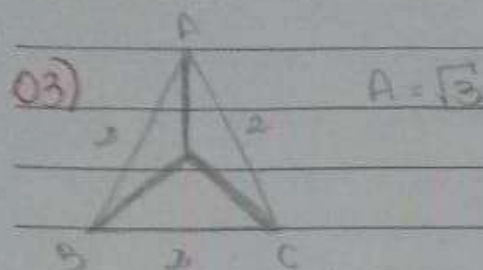
$$h = 4\sqrt{3}$$

$$l = \frac{4\sqrt{6}}{2}$$

$$l = 2\sqrt{6}$$

1 1

S T Q Q S S D



Áreas dos Δ formados

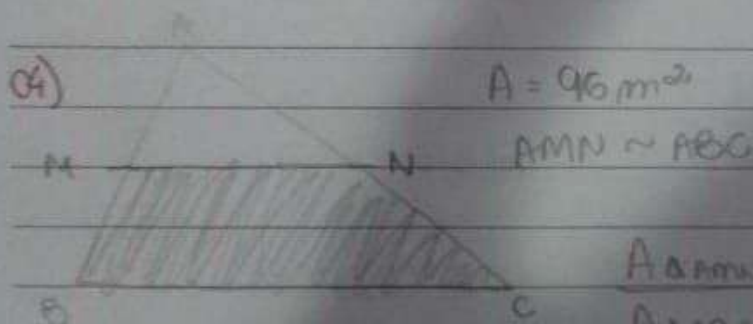
Área Total = $\sqrt{3}$

$$APB = \frac{b \cdot h}{2} = \frac{2h}{2} = h \quad APC + APB + BPC = h + h + h = \sqrt{3}$$

$$APB = \frac{b \cdot h}{2} = \frac{2h}{2} = h$$

$$BPC = \frac{b \cdot h}{2} = \frac{2h}{2} = h$$

R: (B)



$$\frac{A_{\Delta AMN}}{A_{\Delta ABC}} = \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$$

BMNC

$$A_{\text{BMNC}} = A_{\Delta ABC} - A_{\Delta AMN}$$

$$A_{\text{BMNC}} = 96 - A_{\Delta AMN}$$

$$A_{\text{BMNC}} = 96 - \frac{1}{4}(96)$$

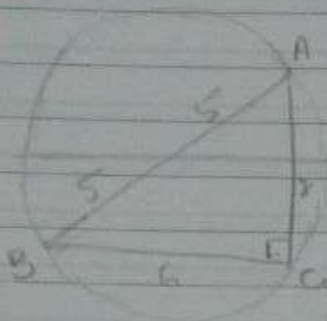
$$A_{\text{BMNC}} = 48 \rightarrow \frac{48}{2} = 24 - \text{devido à razão}$$

$$A_{\text{BMNC}} = 96 - 24$$

$$A_{\text{BMNC}} = 72 \text{ m}^2$$

R: 72 m^2

05)



$$r = 5 \text{ cm}$$

$$BC = 6 \text{ cm}$$

$$AB = 2 \text{ radio}$$

$$AB = 10 \text{ cm}$$

$$10^2 = 6^2 + x^2$$

$$100 = 36 + x^2$$

$$x^2 = 100 - 36$$

$$x^2 = 64$$

$$x = \sqrt{64}$$

$$x = 8$$

Área do Δ

$$\frac{b \cdot h}{2}$$

$$A = \frac{6 \cdot 8}{2}$$

$$A = \frac{48}{2}$$

$$A = 24 \text{ cm}^2$$

R: (A)

06)



$$r = 4$$

$$d = 8$$

$$A_{\Delta} = \frac{b \cdot h}{2}$$

$$A_{\Delta} = \frac{4 \cdot 4\sqrt{3}}{2}$$

$$\frac{2}{2}$$

$$A_{\Delta} = \frac{4 \cdot 4\sqrt{3}}{4}$$

$$A_{\Delta} = 4\sqrt{3}$$

altura do Δ

$$h = \frac{4\sqrt{3}}{2}$$

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

$$A_{\Delta} = 16 \cdot 3$$

$$A_{\Delta} = 48 \text{ cm}^2$$

$$R: 48 \text{ cm}^2$$