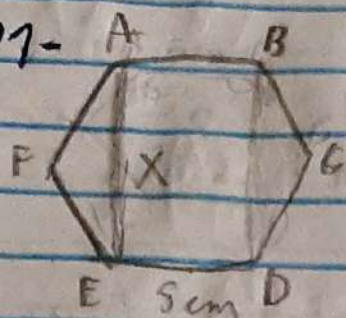


Tarefa Bônus - Área de Polígonos

01-



$$A + B + D + E = 540^\circ$$

$$SAEF = \frac{(5\sqrt{2} \cdot 5\sqrt{2})}{2}$$

$$AE:$$

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

$$x^2 = 50$$

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

$$A = \frac{(5 \cdot 5)}{5\sqrt{2}}$$

$$h = \frac{25}{5\sqrt{2}}$$

$$h = \frac{5 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}}$$

$$S_{ABDE}:$$

$$5 \cdot 5\sqrt{2}$$

$$25\sqrt{2}$$

$$SAEF = \frac{50}{2}$$

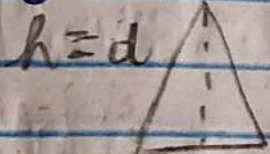
$$SAEF = \frac{25}{2}$$

$$S_{ABCOEF} = 2 \cdot \left(\frac{25}{2} \right) + 25\sqrt{2}$$

$$S_{ABCOEF} = \frac{50 + 25\sqrt{2}}{2}$$

$$S_{ABCOEF} = 25(\sqrt{2} + 1)$$

02-



$$S_{\Delta} = 16\sqrt{3} \text{ cm}^2$$

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

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

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

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

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$$S_{\square} = (2\sqrt{6})^2$$

$$S_{\square} = 4 \cdot 6$$

$$S_{\square} = 24 \text{ m}^2$$

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$$S_{\square} = 24 \text{ m}^2$$

$$S_{\square} = 24 \text{ m}^2$$

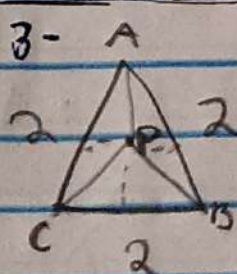
$$S_{\square} = 24 \text{ m}^2$$

$$S_{\square} = 24 \text{ m}^2$$

$$S_{\square} = 24 \text{ m}^2$$

$$S_{\square} = 24 \text{ m}^2$$

03-



$$S_{ABC} = \sqrt{3}$$

Teremos 3 áreas:

$$S_{APB}$$

$$S_{APC}$$

$$S_{CPB}$$

$$S_{ABC} = \sqrt{3}$$

$$S_{APB} = \frac{2h}{2}$$

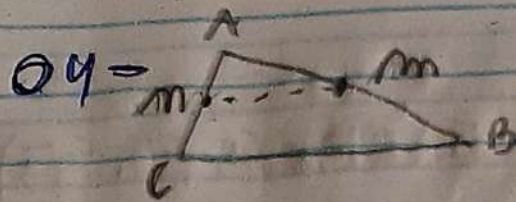
$$S_{APC} = \frac{2h_2}{2}$$

$$S_{CPB} = \frac{2h_3}{2}$$

A soma das distâncias = $\sqrt{3}$

$$h + h_1 + h_2 = \sqrt{3}$$

(B)



$$S_{ABC} = 96 \text{ m}^2$$

$$S_{BammC} = ?$$

$$96 \text{ m}^2 - 24 \text{ m}^2 = \boxed{72 \text{ m}^2}$$

$$S_{ABC} = \frac{B \cdot h}{2}$$

$$96 = \frac{B \cdot h}{2}$$

$$192 = B \cdot h$$

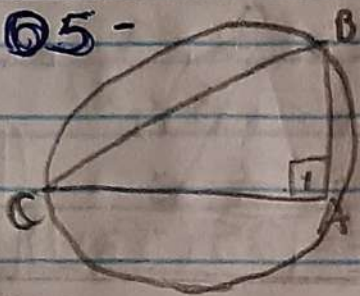
$$S_{amm} = \left(\frac{b \cdot h}{2} \right) \cdot \frac{1}{2}$$

$$S_{amm} = \left(\frac{b \cdot h}{4} \right) \cdot \frac{1}{2}$$

$$S_{amm} = \frac{192}{8}$$

$$S_{amm} = 24 \text{ m}^2$$

05-



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

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

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

$$10^2 = 6^2 + AC^2$$

$$100 = 36 + AC^2$$

$$AC^2 = 64$$

$$AC = 8$$

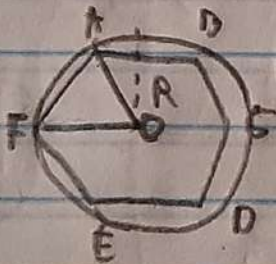
(A)

$$S_{BAC} = \frac{b \cdot a}{2}$$

$$S_{BAC} = \frac{8 \cdot 6}{2}$$

$$S_{BAC} = \boxed{24 \text{ cm}^2}$$

06-



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

$$S_{ADF} = \frac{L^2 \sqrt{3}}{4}$$

$$S_{AOF} = \frac{4^2 \sqrt{3}}{4}$$

$$S_{AOF} = 4\sqrt{3} \text{ cm}^2$$

$$(S_{AOF})^2 = \frac{179}{3}$$

$$(4\sqrt{3})^2 = 16 \cdot 3 = 48$$

$$\boxed{48}$$