

Tarefa básica - Áreas de Polígonos

$$\textcircled{1} A_{\square} = b \cdot h$$

$$A_{\square} = 5 \cdot 5\sqrt{2}$$

$$A_{\square} = 25\sqrt{2}$$

$$A_{\Delta} = \frac{5\sqrt{2} \cdot 5\sqrt{2}}{2}$$

$$A_{\Delta} = \frac{25\sqrt{4}}{2}$$

$$h_{\Delta} = \frac{5}{\sqrt{2}}$$

$$A_{\Delta} = \frac{25 \cdot 2}{2}$$

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

$$A_{\Delta} = \frac{25 \cdot 2}{2} = 25$$

$$A_{\text{nx}} = 25\sqrt{2} + 2 \cdot \left(\frac{25}{2}\right)$$

$$A_{\text{nx}} = 25 \cdot \left(2 \cdot \frac{1}{2} + \sqrt{2}\right)$$

$$A_{\text{nx}} = 25(1 + \sqrt{2})$$

alternativa "E"

$$\textcircled{2} h_{\Delta} = \frac{l\sqrt{3}}{2}$$

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

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

$$16\sqrt{3} = \frac{l \cdot l\sqrt{3}}{2}$$

$$h_{\Delta} = 2\sqrt{2} \cdot \sqrt{3}$$

$$A_{\Delta} = (2\sqrt{6})^2$$

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

$$h_{\Delta} = 2\sqrt{6}$$

$$A_{\Delta} = 4 \cdot 6$$

$$32\sqrt{3} = l^2 \sqrt{3}$$

$$32 = l^2$$

$$\sqrt{32} = l$$

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

alternativa "B"

$$\textcircled{3} S_{ABC} = S_{ABP} + S_{ACP} + S_{PCB}$$

$$\sqrt{3} = S_{AB} + S_{AC} + S_{CB}$$

$$S_{ABP} + S_{ACP} + S_{PCB} = \sqrt{3}$$

alternativa "B"

$$\textcircled{4} \frac{S_{AMN}}{96} = \left(\frac{x}{2x} \right)^2$$

$$A_{BMNC} = ABC - AMN$$

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

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

$$\frac{S_{AMN}}{96} = \frac{x^2}{4x^2}$$

$$\frac{S_{AMN}}{96} = \frac{1}{4}$$

$$4 \cdot S_{AMN} = 96 \cdot 1$$

$$S_{AMN} = \frac{96}{4}$$

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

$$\textcircled{5} AB = 2.5 \quad A_a = 8.6$$

$$AB = 10 \quad A_a = 8.3$$

$$AB = 10$$

$$BC = 6$$

$$AC = ?$$

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

alternativa "A"

$$AC^2 + BC^2 = AB^2$$

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

$$AC^2 + 36 = 100$$

$$AC^2 = 100 - 36$$

$$AC = \sqrt{64}$$

$$AC = 8$$

$$\textcircled{6} A = \frac{2\sqrt{3}}{4}$$

$$A = \frac{4\sqrt{3}}{4}$$

$$A = \frac{4\sqrt{3}}{4}$$

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

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

$$A^2 = 16 \cdot 3$$

$$A^2 = 48$$