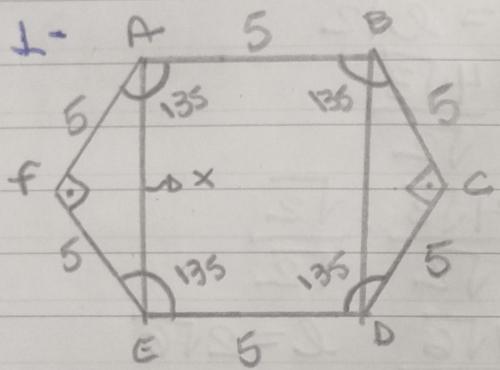


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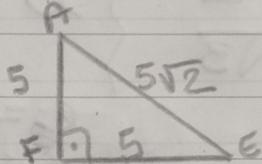
## Tarefa Básica



$$S_{\text{retângulo}} = b \cdot h$$

$$S_{\text{retângulo}} = 5 \cdot 5\sqrt{2}$$

$$S_{\text{retângulo}} = 25\sqrt{2}$$



$\triangle AEF$

$$S_{\triangle AEF} = \frac{b \cdot h}{2}$$

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

$$x^2 = 50$$

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

$$S_{\triangle AEF} = \frac{5 \cdot 5}{2}$$

$$S_{\triangle AEF} = 25 \cdot \frac{1}{2}$$

$$S_{\triangle AEF} = \frac{25}{2}$$

$$S_{\text{hexágono}} = S_{\text{retângulo}} + 2 \cdot S_{\triangle AEF}$$

$$S_{\text{hexágono}} = 25\sqrt{2} + 2 \left( \frac{25}{2} \right)$$

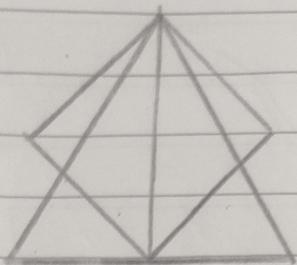
$$S_{\text{hexágono}} = 25\sqrt{2} + \frac{50}{2}$$

$$S_{\text{hexágono}} = 25\sqrt{2} + 25$$

$$S_{\text{hexágono}} = \underline{\underline{25(\sqrt{2} + 1) \text{ cm}^2}}$$

E

2)



$$\text{Str. angolo equilatero} = 16\sqrt{3} \text{ m}^2$$

$$h\Delta = d\square$$

$$\text{Str. angolo} = \frac{l^2\sqrt{3}}{4} \quad h\Delta$$

$$d\square$$

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

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

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

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

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

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

$$\sqrt{64} = l$$

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

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

$$8 = l$$

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

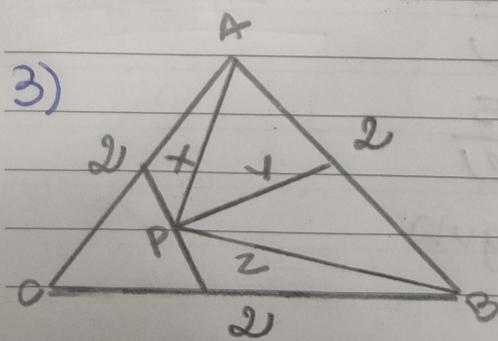
$$\text{Squadrado} = l^2$$

$$\text{Squadrado} = (2\sqrt{6})^2$$

$$\text{Squadrado} = \underline{24 \text{ m}^2}$$

B

3)

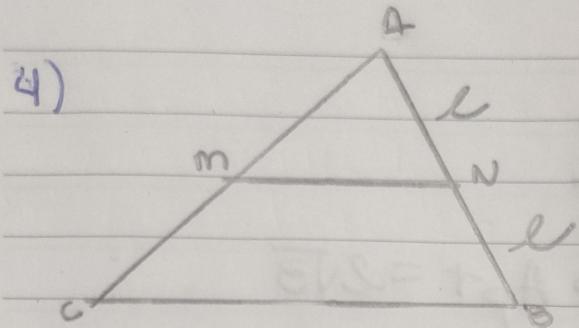


$$A_{APB} + A_{BPC} + A_{APC} = A_{ABC} = \sqrt{3}$$

$$\frac{\cancel{2y}}{\cancel{2}} + \frac{\cancel{2z}}{\cancel{2}} + \frac{\cancel{2x}}{\cancel{2}} = \sqrt{3}$$

$$y + z + x = \sqrt{3}$$

B



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

$$S_{\triangle CMN} = S_{\Delta ABC} - S_{\Delta AMN}$$



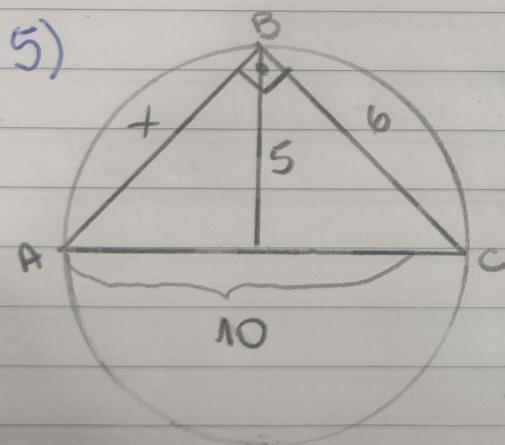
$$\frac{S_{\Delta AMN}}{S_{\Delta ABC}} = \frac{1}{4}$$

$$S_{\triangle CMN} = 96 - 24$$

$$\underline{\underline{S_{\triangle CMN} = 72 \text{ m}^2}}$$

$$S_{\Delta AMN} = \frac{S_{\Delta ABC}}{4}$$

$$S_{\Delta AMN} = \frac{96}{4} = 24$$



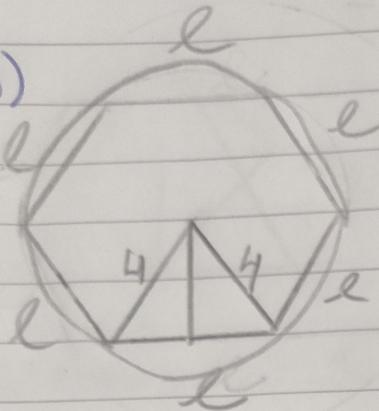
$$\begin{aligned} 10^2 &= 6^2 + x^2 \\ 100 &= 36 + x^2 \\ \sqrt{64} &= x \\ 8 &= x \end{aligned}$$

$$S_{\Delta ABC} = \frac{b \cdot h}{2}$$

$$S_{\Delta ABC} = \frac{8 \cdot 6}{2} \rightarrow S_{\Delta ABC} = \underline{\underline{24 \text{ cm}^2}}$$

(A)

6)



$$A_{Pf} = \frac{r \sqrt{3}}{2}$$

$$A_{Pf} = \frac{4\sqrt{3}}{2} \Rightarrow A_{Pf} = 2\sqrt{3}$$

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

$$A = 2 \cdot 2\sqrt{3}$$

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

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

Quadrado da área =  $Q_A$

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

$$Q_A = 16 \cdot 3$$

$$\underline{\underline{Q_A = 48}}$$