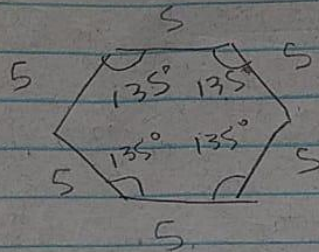


Área de Polígonos

①



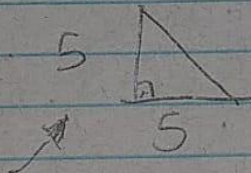
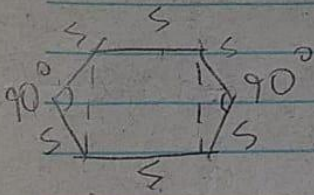
$$S = (n-2) \cdot 180^\circ$$

$$S = (6-2) \cdot 180^\circ$$

$$S = 720^\circ$$

$$135^\circ \cdot 4 = 540$$

$$720^\circ - 540^\circ = 180^\circ$$



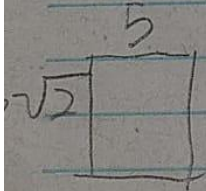
$$5^2 + 5^2 = x^2$$

$$x^2 = 50$$

$$x = \sqrt{50}$$

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

$$A = \frac{25}{2} \quad \left| \quad \frac{25 \cdot 2}{2} = 25 \right.$$



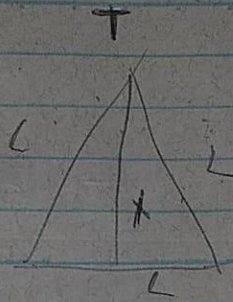
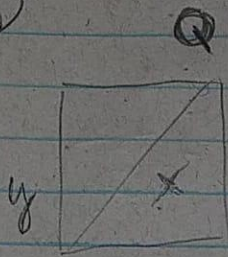
$$A = 25\sqrt{2}$$

Exo E

$$A_{\text{total}} = 25 + 25\sqrt{2}$$

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

②



$$A_T = 16\sqrt{3} \text{ m}^2$$

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

$$L^2 = 64$$

$$L = 8$$

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

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

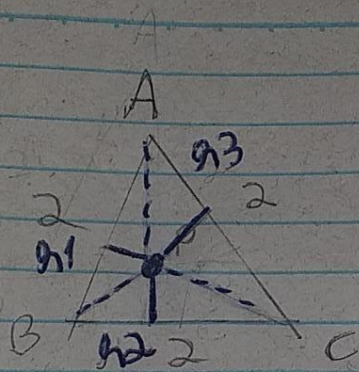
$$2y^2 = (4\sqrt{3})^2$$

$$2y^2 = 48$$

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

Setra B

③



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

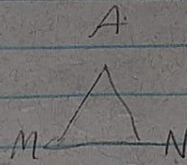
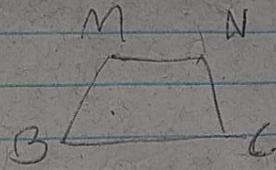
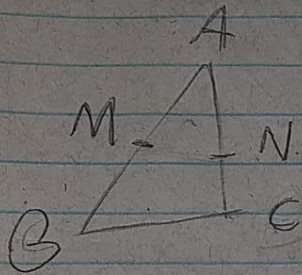
$$A_{APB} + A_{APC} + A_{BPC} = A_{ABC}$$

$$\frac{2h_1}{2} + \frac{2h_2}{2} + \frac{2h_3}{2} = \sqrt{3}$$

$$h_1 + h_2 + h_3 = \sqrt{3}$$

Sethu B

(4)



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

$$\frac{AM}{AB} = \frac{AN}{AC} = \frac{1}{2}$$

$$\frac{\Delta AMN}{\Delta ABC} = k^2 = \frac{1}{4}$$

$$\frac{x}{96} = \frac{1}{4}$$

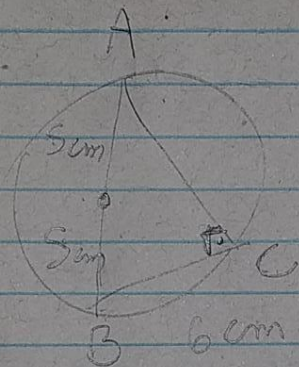
$$\Delta BMNC = 96 - 24$$

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

$$4x = 96$$

$$x = 24$$

5



AB = Circunferência
AB = 10 cm

extremidade ponto C
para o ter 90° .

teorema de Pitágoras:

ângulo inscrito

$$\hat{ACB} = \frac{180}{2}$$

$$\hat{ACB} = 90^\circ$$

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

$$36 + x^2 = 100$$

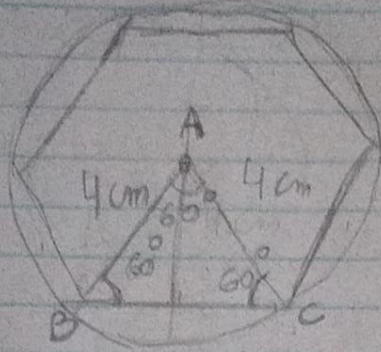
$$x^2 = 64$$

$$x = 8$$

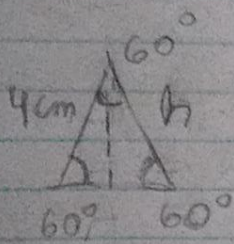
$$\frac{8 \cdot 6}{2} = 24$$

Letra A

6



$$AB = AC = BC = 4$$



$$\begin{aligned} 16 - 4 &= h^2 \\ h^2 &= 12 \\ h &= \sqrt{12} \\ h &= 2\sqrt{3} \end{aligned}$$

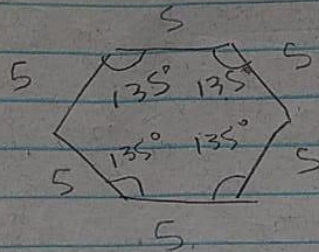
$$A_{ABC} = 2 \cdot 2\sqrt{3}$$

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

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

Área de Polígonos

①



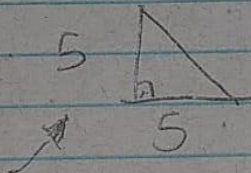
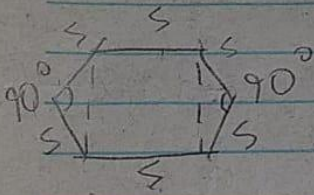
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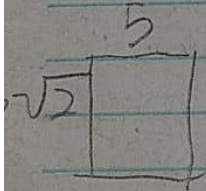
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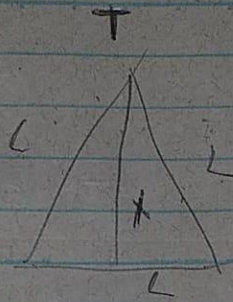
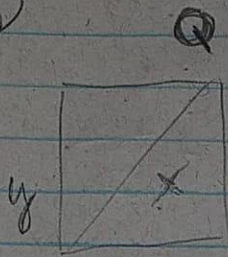
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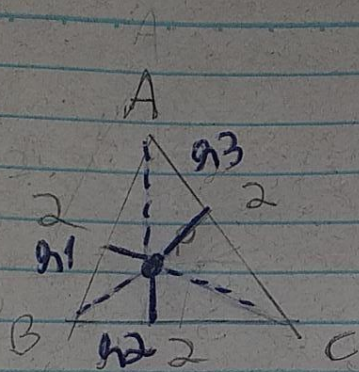
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Setra B

③



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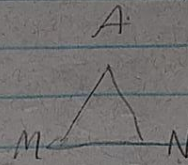
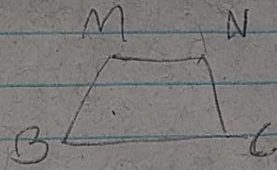
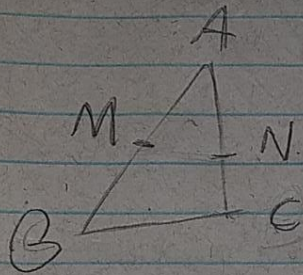
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Sethu B

(4)



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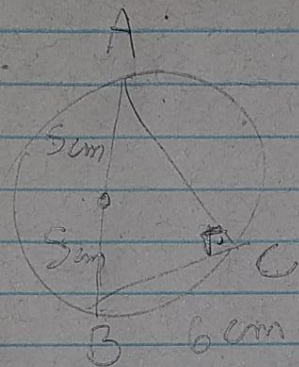
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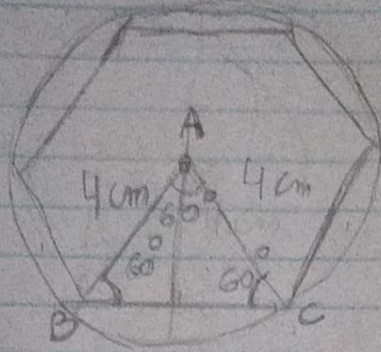
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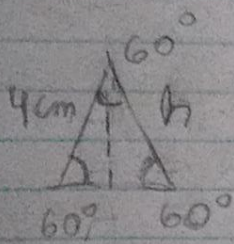
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Letra A

6



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$$h^2 = 12$$

$$h = \sqrt{12}$$

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