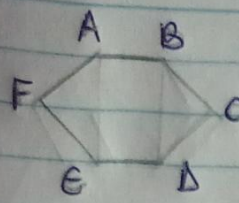


Área de Polígono

Exercício 1

01.



$A + B + D + E = 540^\circ$
 $C = 90^\circ$
 $F = 90^\circ$

AE $ABDE$ *Altura triangulo*

$x^2 = S^2 + S^2$ $AR = S \sqrt{2}$ $A = \frac{(S \cdot S)}{S \sqrt{2}}$
 $x^2 = 50$ $AR = 2S \sqrt{2}$ $A = \frac{S \sqrt{2}}{2}$
 $x = \sqrt{50}$
 $x = S \sqrt{2}$

Area triangulo *Area Hexagono*

$AT = \frac{S \sqrt{2} \cdot S \sqrt{2}}{2}$ $AH = 2 \cdot (2S/2) + 2S \sqrt{2}$
 $AH = 2S + 2S \sqrt{2}$
 $AH = 2S \sqrt{2} + 1 //$

$AT = \frac{2S}{2}$ *Resposta e*

Exercício 2

02.

Área triângulo equilátero

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

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

$$64\sqrt{3}$$

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

$$64 = l^2$$

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

$$l = 8$$

Área do quadrado

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

$$A = 4 \cdot 6$$

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

Resposta B

Altura do triângulo

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

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

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

Diagonal do quadrado

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

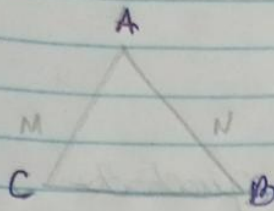
$$l = \frac{4\sqrt{3}}{\sqrt{2}}$$

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

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

Exercícios 3 e 4

04.



$$BMNC = x$$

$$\Delta ABC = x + \Delta AMN$$

$$x = \Delta ABC - \Delta AMN$$

$$x = 96 - \frac{1}{4}(96)$$

$$MN = \frac{1}{2} \cdot BC$$

$$x = 96 - 24$$

$$\Delta AMN \sim \Delta ABC$$

$$x = 72$$

$$BMNC = 72$$

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

$$\Delta ABC = 4$$

03

$$Area = \sqrt{3}$$

$$lado = 2$$

$$\frac{2^2 \sqrt{3}}{4} = \sqrt{3} \rightarrow Area$$

$$APC = \frac{2H_1}{2}$$

$$ABC = \frac{2H_1}{2} + \frac{2H_2}{2} + \frac{2H_3}{2}$$

$$APB = \frac{2H^2}{2}$$

$$ABC = \sqrt{3}$$

Resposta B

$$BPC = \frac{2H_3}{2}$$

Exercício 5 e 6

05.

$A \rightarrow B = \text{Diâmetro da circunferência}$
 $AB = 5 \text{ cm}$

$AB = \text{diâmetro do triângulo}$
 $C = 90^\circ$

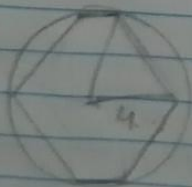
LADO $AB = 10$
LADO $BC = 6$

Área do triângulo

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

$$\frac{8 \cdot 6}{2} = \frac{48}{2} = 24 \text{ cm}^2$$

06.



$$6 \cdot 4 = 24$$

$$P = 24 \cdot 2$$

$$P = 48 //$$

