

Áreas de Polígonos - CT 1.1.317

1)

$$(n-2)180^\circ$$

$$h = \underline{15 \times 5}$$

$$5\sqrt{2}$$

$$(6-2)180^\circ = 720^\circ$$

$$\text{Área} = \frac{(5\sqrt{2}) \cdot (5\sqrt{2}/2)}{2}$$

$$A+B+D+E = 4 \cdot 135 = 540$$

$$C, F = 90^\circ$$

$$\text{Área} = \frac{25}{2}$$

A.E:

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

$$\text{Área triângulo} = 2 \left(\frac{25}{2} \right) = 25\sqrt{2}$$

$$x^2 = 50$$

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

$$\text{Área triângulo} = 2.5 + 2.5\sqrt{2}$$

ABDE:

$$\text{Área triângulo} = 2.5(\sqrt{2} + 1)$$

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

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

2) Área triangulo equilátero.

$$A = \frac{(1^2 \cdot \sqrt{3})}{4}$$

$$h = \frac{1\sqrt{3}}{2}$$

$$d = 1\sqrt{2}$$

$$4\sqrt{3} = 1\sqrt{2}$$

$$16\sqrt{3} = \frac{(1^2 \cdot \sqrt{3})}{4}$$

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

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

$$64\sqrt{3} - \sqrt{3} = 1^2$$

$$1 = 164 = 8$$

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

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

$$A = 1^2$$

$$H = d$$

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

$$A = 4 \cdot 6$$

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

Área quadrado:

3)

h_1, h_2, h_3 = distâncias P.

$$h_1 + h_2 + h_3 = ?$$

Vertices ABC = APC, APB, BPC.

$$APC + APB + BPC = \text{Ano}$$

$$APC = \frac{2h_1}{2}$$

$$APB = \frac{2h_2}{2}$$

$$BPC = \frac{2h_3}{2}$$

$$\frac{2h_1}{2} + \frac{2h_2}{2} + \frac{2h_3}{2} = (APC + APB + BPC)$$

$$ABC = \sqrt{3}$$

então

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

$$5) AB = 5$$

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

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

$$H^2 = 6^2 + AC^2$$

$$100 = 36 + AC^2$$

$$64 = AC$$

$$AC = 8$$

$$\text{Área} \Delta = B \cdot h$$

,

8,
6

2

$$4 \cdot 6 = 24 \text{ cm}^2$$

6)

$$r = \text{lado hex}$$

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

Área quadrado

$$4\sqrt{3}^2$$

Área

$$4\sqrt{3}, 4\sqrt{3}$$

$$16\sqrt{3}$$

$$16 \cdot 3 = 48$$

$$A = \frac{1^2 \sqrt{3}}{4}$$

$$A = \frac{4^2 \sqrt{3}}{4}$$

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