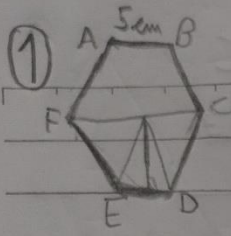


### Áreas de Polígonos:

1.

①   $(6 \cdot 2) \cdot 180 = 720^\circ$   
 $A + B + D + E = 540^\circ$   
 $C \text{ e } F = 90^\circ$

$x^2 = 5^2 + 5^2$   
 $x = \sqrt{50}$   
 $x = 5\sqrt{2}$

ABDE  
 $A = 5 \cdot 5\sqrt{2}$   
 $A = 25\sqrt{2}$

$A = \frac{(5\sqrt{2}) \cdot (\frac{\sqrt{2}}{2})}{2}$   
 $A = \frac{25}{2}$

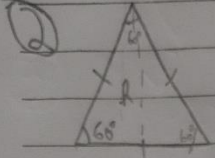
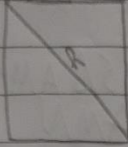
$A = 2 \cdot \left( \frac{25}{2} \right) + 25\sqrt{2}$   
 $A = 25 + 25\sqrt{2}$   
 $A = 25(\sqrt{2} + 1)$

$R: E) 25(\sqrt{2} + 1)$

R: e)  $25(\sqrt{2} + 1)$

2.

②

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

$$\frac{64\sqrt{3}}{\sqrt{3}} = L^2 \rightarrow L = \sqrt{64}$$

$$L = 8$$

$$\frac{L}{2} = \frac{L\sqrt{3}}{2} \rightarrow \frac{8}{2} = \frac{8\sqrt{3}}{2}$$

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

$$d = L\sqrt{2} \rightarrow d = 8\sqrt{2}$$

$$4\sqrt{3} = \frac{1}{2}d \rightarrow d = 8\sqrt{3}$$

$$d = 8\sqrt{3}$$

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

$$1 = \frac{4\sqrt{6}}{\sqrt{2}} \rightarrow 1 = 2\sqrt{6}$$

$$A = 12$$

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

$$A = 4 \cdot 6$$

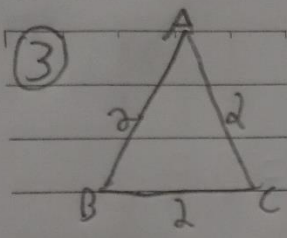
$$A = 24 \text{ m}^2$$

R: B | 24

R: b) 24

3.

③



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

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

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

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

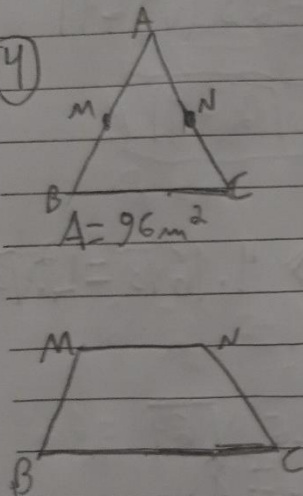
$$h_1 + h_2 + h_3 = \sqrt{3}$$

R: B |  $\sqrt{3}$

R: b)  $\sqrt{3}$

4.

④



$A = 96 \text{ m}^2$

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

$\frac{S_{\triangle AMN}}{S_{\triangle ABC}} = \frac{1}{4} \rightarrow S_{\triangle AMN} = \frac{1}{4} S_{\triangle ABC}$

$S_{\triangle ABC} = X + S_{\triangle AMN}$   
 $X = S_{\triangle ABC} - S_{\triangle AMN}$

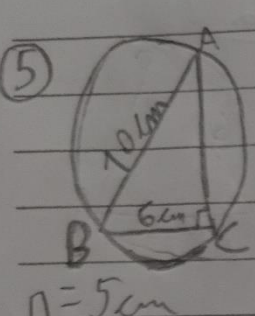
$X = 96 - (\frac{1}{4} \cdot 96) \rightarrow X = 96 - 24 \rightarrow X = 72$

**R:  $72 \text{ m}^2$**

R:  $72 \text{ m}^2$

5.

⑤



$10^2 = 6^2 + X^2$   
 $100 - 36 = X^2$   
 $X = \sqrt{64}$   
 $X = 8$   
 $AC = 8 \text{ cm}$

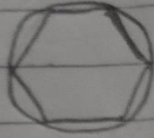
$A = \frac{b \cdot h}{2} \rightarrow \frac{6 \cdot 8}{2}$   
 $A = 3 \cdot 8 \rightarrow 24 \text{ cm}^2$

**R: A) 24**

R: a) 24

6.

⑥


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

$n = 4 \text{ cm}$        $A = 4\sqrt{3}$        $A^2 = (4\sqrt{3})^2 \rightarrow 4 \cdot 4 \cdot 3$   
 $A^2 = 48$

**R: 48**

R: 48