

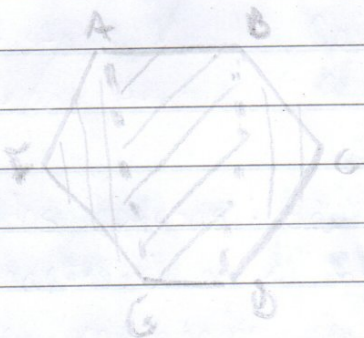
Áreas de polígonos

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

$$A+B+D+E = 540^\circ$$

$$C = 90^\circ$$

$$F = 90^\circ$$



$$AE^2 = 5^2 + 5^2$$

$$AE^2 = 50$$

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

ABDE

$$A^{\Delta} = 5 \cdot 5\sqrt{2} = 25\sqrt{2}$$

$$h^{\Delta} = \frac{(5 \cdot 5)}{5\sqrt{2}} = \frac{5\sqrt{2}}{2}$$

$$A^{\Delta} = \left(5\sqrt{2} \cdot \frac{5\sqrt{2}}{2} \right) / 2 = 25/2$$

$$A = 2(25/2) + 25\sqrt{2}$$

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

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

(E)

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

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

$$l^2 = 64$$

$$l = 8$$

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

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

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

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

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

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

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

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

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

(B)

3) 3 triángulos ... APC, APB, BPC

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

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

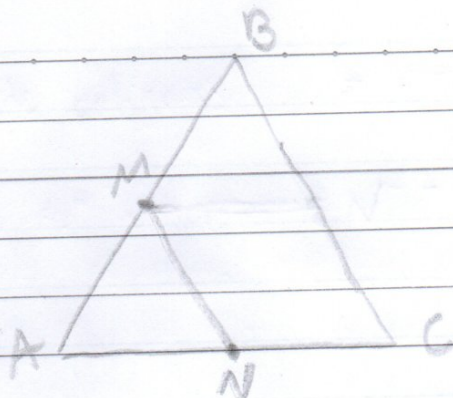
$$BPC = \frac{2h_3}{2}$$

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

h = altura

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

4)



$$ABC \sim AMN$$

$$\frac{ABC}{AMN} = 2$$

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

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

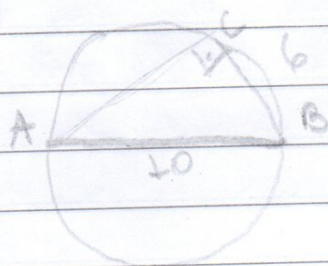
$$x = 96 - 24$$

$$x = 72 \text{ m}^2$$

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

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

5)

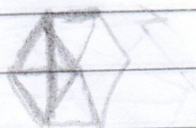


$$10^2 = 6^2 + AC^2$$

$$AC = 8$$

$$\frac{8 \cdot 6}{2} = 24 \text{ m}^2 \quad (A)$$

6)



$$4 \triangle 4 = 4$$

$$h = \left(\frac{4\sqrt{3}}{2} \right) \cdot 2$$

$$b^2 = 2$$

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

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

$$A = 4\sqrt{3} \quad 4\sqrt{3}^2 = 16 \cdot 3 = 48 \text{ cm}^2$$