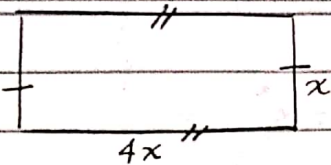


1.



$$P = 4x + x + 4x + x$$

$$220\text{cm} = 10x$$

$$\frac{220\text{cm}}{10} = x$$

$$x = 22\text{cm (anchura)}$$

$$4x = 4(22) = 88$$

Logo $A_{\square} = \text{base} \times \text{altura}$

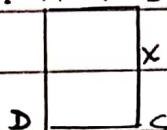
$$A_{\square} = 88 \times 22$$

$$A_{\square} = 1936\text{cm}^2$$

2.

a. A 14 B

$\overline{BC} = ?$



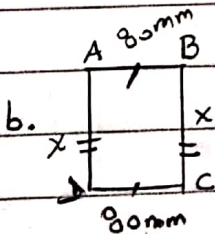
$$A_{\square} = b \times h$$

$$140\text{cm}^2 = 14\text{cm} \times \overline{BC}$$

$$\frac{140\text{cm}^2}{14\text{cm}} = \overline{BC}$$

$$10\text{cm} = \overline{BC}$$

$$10\text{cm} = \overline{BC}$$



$$P_{\square} = 2,6\text{ dm} \rightarrow 260\text{ mm}$$

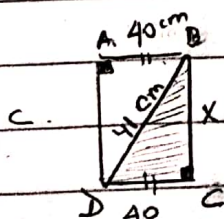
$$260\text{ mm} = 80\text{ mm} + x + 80\text{ mm} + x$$

$$260\text{ mm} = 160\text{ mm} + 2x$$

$$260\text{ mm} - 160\text{ mm} = 2x$$

$$100\text{ mm} = 2x$$

$$\frac{100\text{ mm}}{2} = x \rightarrow \overline{BC} = 50\text{ mm}$$



$$\overline{DB} = 410\text{ mm} \rightarrow 41\text{ cm} \quad \overline{AB} = 40\text{ mm} \rightarrow 40\text{ cm}$$

$$41^2 = x^2 + 40^2$$

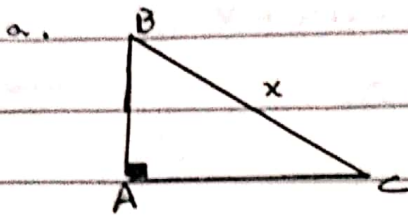
$$1681 - 1600 = x^2$$

$$\sqrt{81} = x$$

$$9 = x$$

$$\overline{BC} = 9\text{ cm}$$

③



$$12^2 + 5^2 = x^2$$

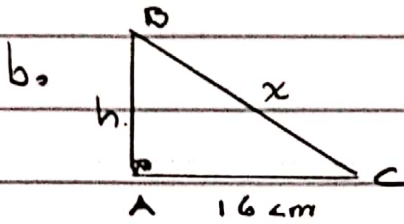
$$144 + 25 = x^2$$

$$\sqrt{169} = x$$

$$\overline{AB} = 0.005 \text{ Dm} \rightarrow 5 \text{ cm}$$

$$\overline{AC} = 12 \text{ cm}$$

$$13 \text{ cm} = \overline{BC}$$



$$A_{\Delta} = \frac{b \times h}{2}$$

$$96 \text{ cm}^2 = \frac{16 \text{ cm} \times h}{2}$$

$$12^2 + 16^2 = x^2$$

$$144 + 256 = x^2$$

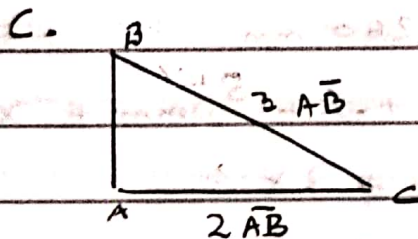
$$400 = x^2$$

$$\sqrt{400} = x$$

$$20 \text{ cm} = \overline{BC}$$

$$\frac{192 \text{ cm}^2}{16 \text{ cm}} = h$$

$$12 \text{ cm} = h$$



$$P_{\Delta} = 120 \text{ cm}$$

$$\overline{AB} + \overline{AC} + \overline{BC} = 120 \text{ cm}$$

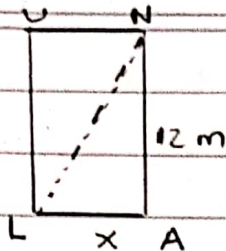
$$\overline{AB} + 2\overline{AB} + 3\overline{AB} = 120 \text{ cm}$$

$$6\overline{AB} = 120 \text{ cm}$$

$$\overline{AB} = \frac{120 \text{ cm}}{6}$$

$$\overline{AB} = 20 \text{ cm}$$

④



$$A_{\square} = b \times h$$

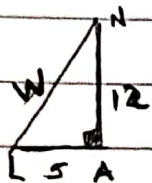
$$60 \text{ m}^2 = x \times 12 \text{ m}$$

$$\frac{60 \text{ m}^2}{12 \text{ m}} = x$$

$$5 \text{ m} = x$$

Logo

$$P_{ALNA} = \overline{LA} + \overline{NA} + \overline{NL}$$



$$W^2 = 12^2 + 5^2$$

$$W^2 = 144 + 25$$

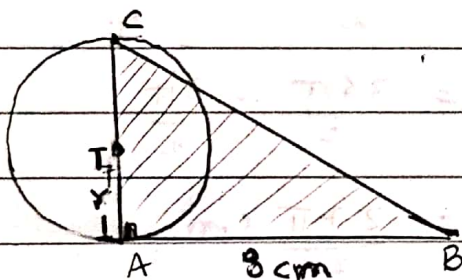
$$W^2 = 169$$

$$\Rightarrow P_{\Delta} = 13 + 5 + 12 = 30 \text{ m}$$

$$W = \sqrt{169}$$

$$W = 13 \text{ m}$$

⑤



$$L_{\odot} = 2\pi r$$

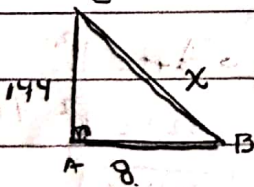
$$144\pi \text{ cm} = 2\pi r$$

$$72 \text{ cm} = r = c$$

$$P_{\Delta ABC} = \overline{CA} + \overline{AB} + \overline{CB}$$

Logo $\overline{CA} = 72 \times 2$

$$\overline{CA} = 144 \text{ cm}$$



$$144^2 + 8^2 = X^2$$

$$20736 + 64 = X^2$$

$$\sqrt{20800} = X$$

$$\sqrt{2^2 \cdot 2^2 \cdot 2^2 \cdot 5^2 \cdot 13} = X$$

$$2 \cdot 2 \cdot 2 \cdot 5 \cdot \sqrt{13} = X$$

$$40\sqrt{13} = CB$$

20800	2	2
10400	2	2
5200	2	2
2600	2	2
1300	2	2
650	2	2
325	5	5
65	5	5
13	13	
1		

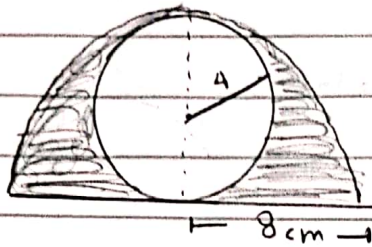
$$P_{\Delta} = 144 + 8 + 40\sqrt{13} \text{ cm}$$

$$P_{\Delta} = 152 + 40\sqrt{13} \text{ cm}$$

Norma

⑥

A.



$$A_s = A_{\Delta} - A_{\odot}$$

$$A_s = \frac{\pi R^2}{2} - \pi r^2$$

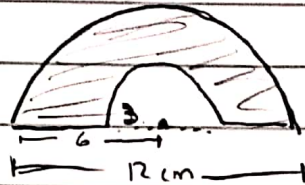
$$A_s = \frac{\pi (8)^2}{2} - \pi (4)^2$$

$$A_s = \frac{64\pi}{2} - 16\pi$$

$$A_s = 32\pi - 16\pi$$

$$A_s = 16\pi \text{ cm}^2$$

B.



$$A_s = A_{\Delta} - A_{\Delta}$$

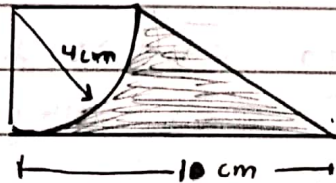
$$A_s = \frac{\pi R^2}{2} - \frac{\pi r^2}{2}$$

$$A_s = \frac{\pi (6)^2}{2} - \frac{\pi (3)^2}{2}$$

$$A_s = \frac{36\pi}{2} - \frac{9\pi}{2}$$

$$A_s = \frac{27\pi}{2} \text{ cm}^2$$

C.



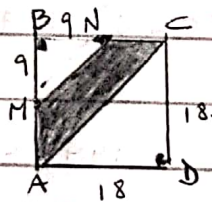
$$A_s = A_{\text{triangle}} - A_{\odot}$$

$$A_s = \frac{(10\text{ cm} + 4\text{ cm}) \times 4\text{ cm}}{2} - \frac{\pi (4)^2}{4}$$

$$A_s = \frac{14 \times 4}{2} - \frac{16\pi}{4}$$

$$A_s = (28 - 4\pi) \text{ cm}^2$$

D.



$$A_s = A_{\square} - (A_{\Delta} + A_{\Delta})$$

$$A_{\square} = L^2$$

$$324 = L^2$$

$$\sqrt{324} = L$$

$$18 = L$$

$$A_s = 324 - \left(\frac{9 \times 9}{2} + \frac{18 \times 18}{2} \right)$$

$$A_s = 324 - \left(\frac{81}{2} + \frac{324}{2} \right)$$

$$A_s = 324 - 405$$

$$A_s = \frac{243}{2} \text{ cm}^2$$