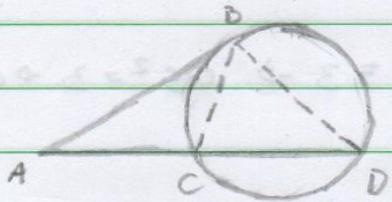


Beatriz Bastos Borges N°03

CTII 350

Tarefa Básica

1.

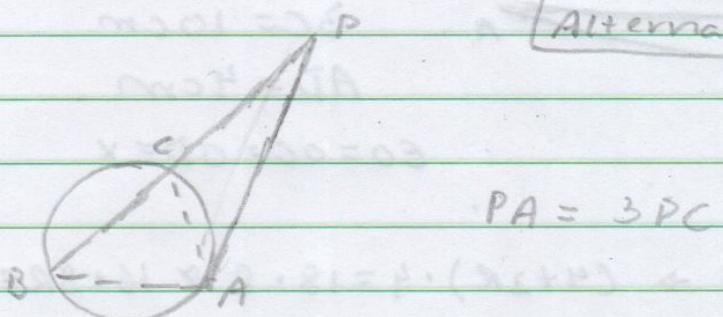


$$\overline{AD} = 8 \text{ cm}$$

$$\overline{AC} = \overline{CD} = x$$

$$8^2 = 2x \cdot x \Rightarrow 64 = x^2 \Rightarrow x = \sqrt{64} \Rightarrow x = 4\sqrt{2}$$

2.



Alternativa C

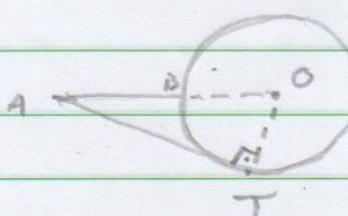
$$PA = 3PC$$

$$PA^2 = PB \cdot PC \Rightarrow (3PC)^2 = PB \cdot PC \Rightarrow 9PC^2 = PB \cdot PC$$

$$9PC = PB$$

Alternativa B

3.



$$TO = BO = 2,5 \text{ cm}$$

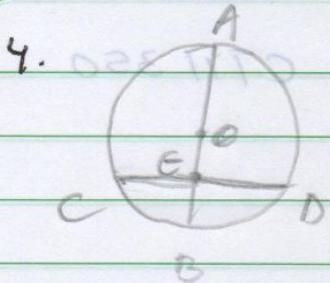
$$AT = 6 \text{ cm}$$

$$AO^2 = 6^2 + 2,5^2 \Rightarrow AO^2 = 36 + 6,25 \Rightarrow AO = \sqrt{42,25}$$

$$AO = 6,5$$

$$AB = 6,5 - 2,5 \Rightarrow AB = 4 \text{ cm}$$

Alternativa E



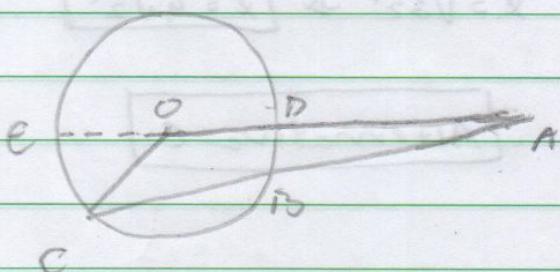
$$CE = ED \quad AO = BO$$

$$CE \cdot ED = AE \cdot EB \Rightarrow CE \cdot CE = 3 \Rightarrow CE^2 = 3 \Rightarrow CE = \sqrt{3}$$

$$CD = \sqrt{3} + \sqrt{3} \Rightarrow \boxed{CD = 2\sqrt{3}}$$

[Alternativa B]

5.



$$AB = 8 \text{ cm}$$

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

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

$$EO = OC = OD = x$$

$$AE \cdot AD = AC \cdot AB \Rightarrow (4+2x) \cdot 4 = 18 \cdot 8 \Rightarrow 16 + 8x = 144$$

$$8x = 128 \Rightarrow x = 16 \text{ cm}$$

$$AC + CO + OA = 18 + 16 + 20 = \boxed{54 \text{ cm}}$$

[Alternativa e]