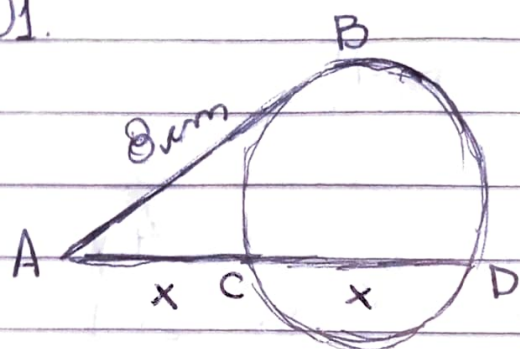


Tarefa Básica

Potência de um ponto

01.



$$8 \cdot 8 = x \cdot 2x$$

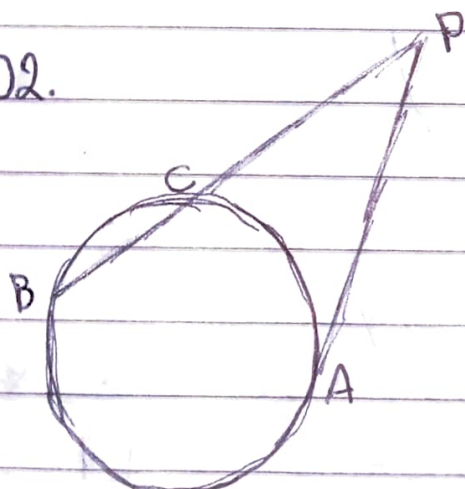
$$64 = 2x^2$$

$$x^2 = 32$$

$$x = \sqrt{32}$$

$$x = 4\sqrt{2} \text{ cm} \quad \textcircled{E}$$

02.



$$(\overline{PA})^2 = \overline{PB} \cdot \overline{PC}$$

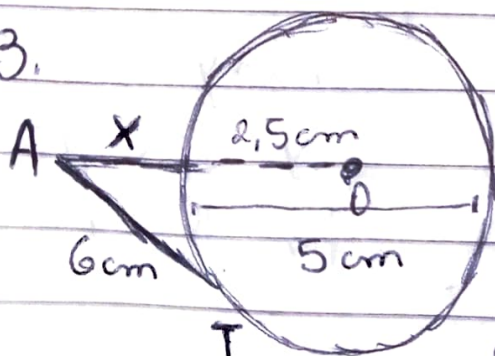
$$(3\overline{PC})^2 = \overline{PB} \cdot \overline{PC}$$

$$9\overline{PC}^2 = \overline{PB} \cdot \overline{PC}$$

$$9\overline{PC} = \overline{PB}$$

$$\boxed{\overline{PB} = 9\overline{PC}} \quad \textcircled{B}$$

03.



$$x(5+x) = 6^2$$

$$5x + x^2 = 36$$

$$x^2 + 5x - 36 = 0$$

não convertem

$$\frac{-5 \pm \sqrt{25 + 144}}{2} = \frac{-5 \pm 13}{2}$$

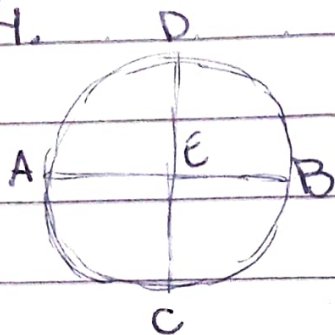
$$\frac{-5 + 13}{2} = 4 \quad \frac{-5 - 13}{2} = -9$$

$$\boxed{x = 4}$$

\textcircled{E}

$$EC = ED$$

04.



$$\overline{EA} \cdot \overline{EB} = \overline{EC} \cdot \overline{ED}$$

$$3 = \overline{EC} \cdot \overline{ED}$$

$$3 = (\overline{EC})^2$$

$$\overline{EC} = \sqrt{3}$$

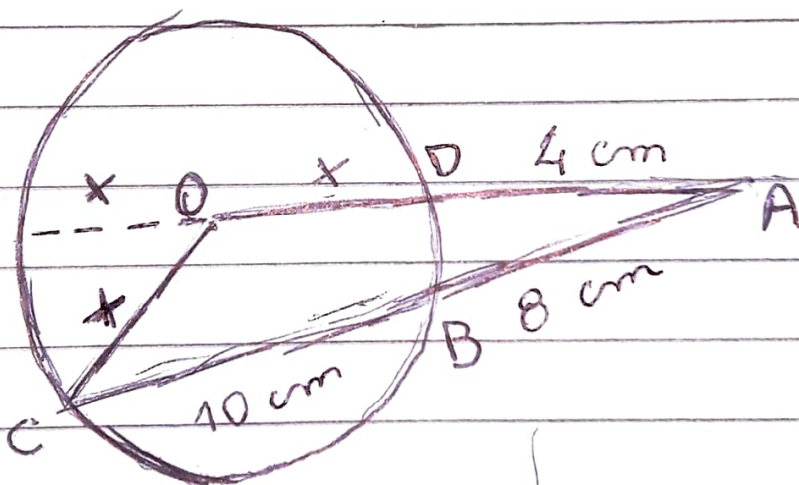
$$\overline{CD} = \overline{EC} + \overline{ED}$$

$$\overline{CD} = \overline{EC} + \overline{EC}$$

$$\overline{CD} = 2\overline{EC}$$

$$\therefore \boxed{\overline{CD} = 2\sqrt{3}} \text{ (B)}$$

05.



$$\overline{AD} \cdot \overline{AE} = \overline{AB} \cdot \overline{AC}$$

$$4(4+2x) = 8 \cdot (8+10)$$

$$16 + 8x = 144$$

$$x = 128/8$$

$$x = 16$$

$$2p = \overline{AO} + \overline{OC} + \overline{AC}$$

$$2p = (4+16) + 16 + (8+10)$$

$$2p = 20 + 16 + 18$$

$$\boxed{2p = 54} \text{ (E)}$$