

$$(\overline{AB})^2 = \overline{AC} \cdot \overline{AD}$$

$$64 = x \cdot 2x$$

$$2x^2 = 64$$

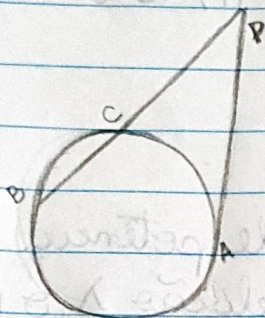
$$x^2 = 32$$

$$x = 4\sqrt{2}$$

$$\begin{array}{r|l} 32 & 2 \\ \hline 16 & 2 \\ \hline 8 & 2 \\ \hline 4 & 2 \\ \hline 2 & 2 \\ \hline 1 & \end{array}$$

Alternativa (E)

②



$$\overline{PA} \cdot \overline{PA} = \overline{PC} \cdot \overline{PB}$$

$$\overline{PA} = 3\overline{PC}$$

$$3\overline{PC} \cdot 3\overline{PC} = \overline{PC} \cdot \overline{PB}$$

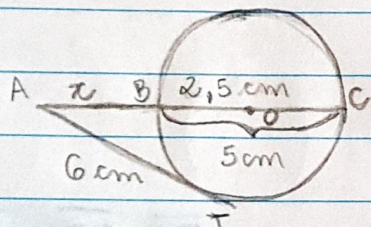
$$9(\overline{PC})^2 = \overline{PC} \cdot \overline{PB}$$

$$\overline{PB} = 9(\overline{PC})^2$$

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

Alternativa (B)

③



$$\overline{AB} \cdot \overline{AC} = (\overline{AT})^2$$

$$\Delta = 25 - 4 \cdot 1 \cdot -36$$

$$x \cdot (5 + x) = 36$$

$$\Delta = 169$$

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

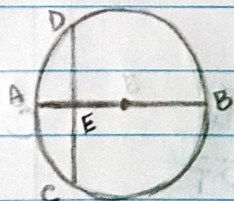
$$x^2 + 5x - 36 = 0$$

$$x = \frac{-5 \pm 13}{2}$$

Alternativa (E)

$$x = 8 = 4$$

④



$$\overline{AE} \cdot \overline{EB} = 3$$

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

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

$$\overline{AE} \cdot \overline{EB} = (\overline{CE})^2$$

$$\overline{CE} = \overline{CD}$$

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

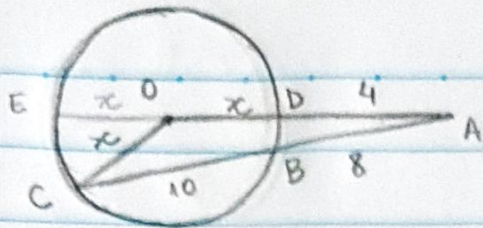
$$\overline{CE} = \sqrt{3}$$

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

Alternativa (B)

$$\overline{CD} = 2\sqrt{3}$$

⑤



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

$$8 \cdot 18 = 4 \cdot (4 + 2x)$$

$$144 = 16 + 8x$$

$$8x = 128$$

$$x = 16$$

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

$$2p = 54 \text{ cm}$$

Alternativa (E)