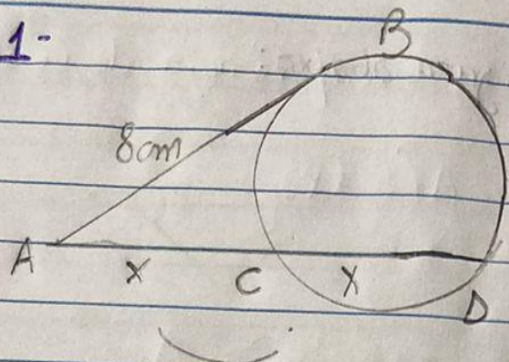


1-



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

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

$$2x^2 = 64$$

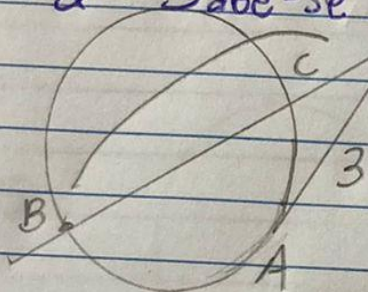
$$x = \sqrt{32}$$

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

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

E

2 - Sabe-se que $PA = 3PC$



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

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

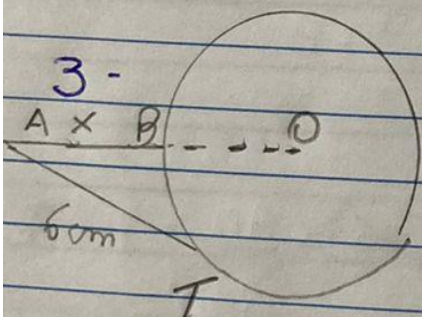
$$\overline{PB} \cdot \overline{PC} = 9(\overline{PC})^2$$

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

$$\overline{PC}$$

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

3-



$$2 \cdot 2,5 = 5$$

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

$$x^2 + 5x - 6^2 = 0$$

$$\Delta = 5^2 - 4 \cdot 1 \cdot (-36)$$

$$\Delta = \sqrt{164} \quad \therefore x = \frac{-5 \pm 13}{2}$$

$$x^2 = 8 = 4\text{cm}$$

$$x_1 = -9 \text{ não convém}$$

$$\text{C.D. } \overline{AE} \cdot \overline{EB} = 3$$

$$\overline{AE} \cdot \overline{EB} = \overline{CE} \cdot \overline{ED}$$

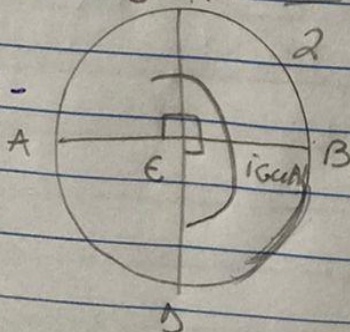
$$3 = x \cdot x$$

$$x^2 = 3$$

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

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

4-



bra

$$P = 16 + (16+4) + (8+10)$$

$$P = 16 + 20 + 18 = 54 \text{ cm} \quad E$$