

Exercícios

01- $\overline{AB} \cdot \overline{AB} = \overline{AC} \cdot \overline{AD}$
 $8 \cdot 8 = x \cdot (x+x)$
 $64 = x^2 + x^2$
 $64 = 2x^2$
 $x^2 = 32$
 $x = \sqrt{32}$
 $x = 4\sqrt{2}$

(E)

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

02- $PA = 3PC$

$PA \cdot PA = PC \cdot PB$
 $3PC \cdot 3PC = PC \cdot PB$
 $9PC^2 = PC \cdot PB$
 $\frac{9PC^2}{PC} = PB$
 $PB = 9PC$

(B)

03- $\overline{AB} \cdot (\overline{AB} + d) = \overline{AT}^2$
 $x \cdot (x + 5) = 6^2$
 $x^2 + 5x - 36 = 0$

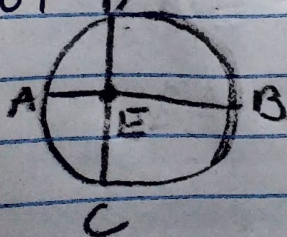
$\Delta = 25$ $d = 2,5 \cdot 2 = 5$

$\Delta = 25 - 4 \cdot 1 \cdot (-36)$
 $\Delta = 25 + 144 = 169$

$$\left\{ \begin{array}{l} x_1 = \frac{-5 + 13}{2} = 4 \\ x_2 = \frac{-5 - 13}{2} = -9 \end{array} \right.$$

(E)

04- D



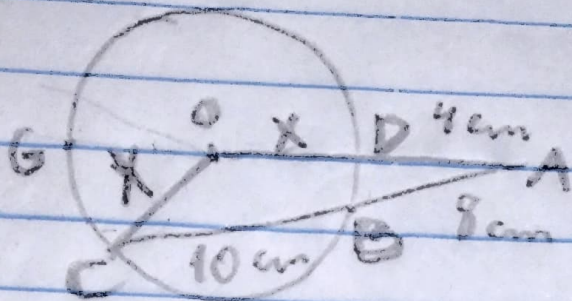
$\overline{CD} = \overline{DE} + \overline{EC}$
 $\overline{DE} = \overline{EC}$

(B)

$\overline{AE} \cdot \overline{EB} = \overline{DE} \cdot \overline{EC}$
 $\overline{AE} \cdot \overline{EB} = \overline{EC}^2$
 $3 = \overline{EC}^2$
 $\overline{EC} = \sqrt{3}$

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

05-



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

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

$$144 = 16 + 8x$$

$$128 = 8x$$

$$x = 16$$

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

$$P = 54$$

(E)