

Ejercicios

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)

32	2
16	2
8	2
4	2
2	2
1	4\sqrt{2}

02-  $PA = 3PC$

$$PA \cdot PA = PC \cdot PB$$

$$3PC \cdot 3PC = PC \cdot PB$$

$$9PC^2 = PC \cdot PB$$

$$\frac{9PC^2}{PC} = PB$$

$$PC$$

$$PB = 9PC$$

(B)

03-  $\overline{AB} \cdot (\overline{AB}+d) = \overline{AT}^2$        $n=2,5$      $d=2,5,2=5$

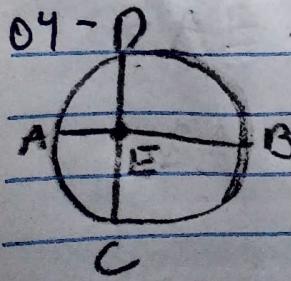
$$x \cdot (x+s) = 6^2$$

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

$$\Delta = 25 - 4 \cdot 1 \cdot (-36) \quad \left\{ \begin{array}{l} x_1 = \frac{-5+13}{2} = 4 \\ x_2 = \frac{-5-13}{2} = -9 \end{array} \right.$$

(E)

$$\Delta = 25 + 144 = 169$$



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

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

$$\overline{AE} \cdot \overline{EB} = \overline{DE} \cdot \overline{EC}$$

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

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

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

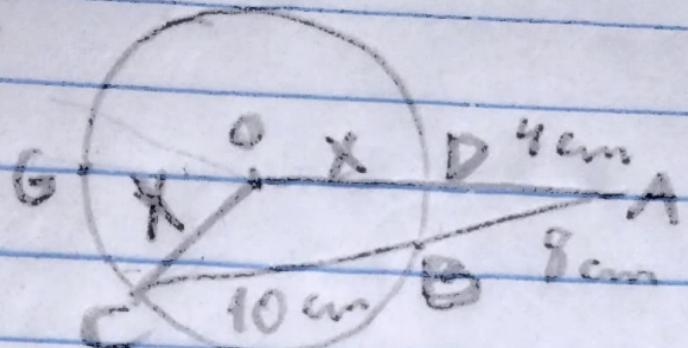
$$\overline{CD} = \overline{DE} + \overline{EC}$$

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

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

(B)

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)