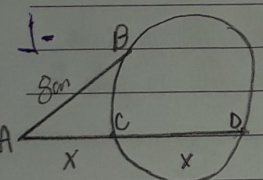


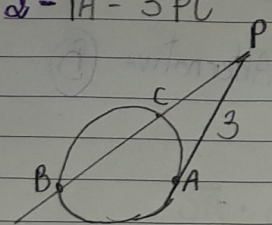
Giovanna Santana Pennisi - CTII 350

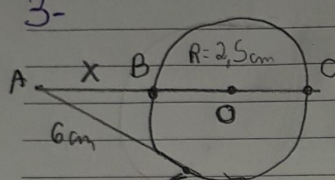
Lista de Exercícios - Aula 26

Lista de Exercícios

1-  $\overline{AC} \cdot \overline{AD} = (\overline{AB})^2$
 $x \cdot 2x = 8^2$
 $2x^2 = 64$
 $x^2 = \frac{64}{2}$
 $x = \sqrt{32}$
 $x = \sqrt{2^3 \cdot 2^1 \cdot 2^1}$
 $x = 2 \cdot 2 \cdot \sqrt{2^1}$
 $x = 4\sqrt{2}$
 Alternativa (E)

32	2
16	2
8	2
4	2
2	2
1	2

2- $\overline{PA} = 3\overline{PC}$  $\overline{PC} \cdot \overline{PB} = (\overline{PA})^2$
 $\overline{PC} \cdot \overline{PB} = (3\overline{PC})^2$
 $\overline{PC} \cdot \overline{PB} = 9(\overline{PC})^2$
 $\overline{PB} = \frac{9 \cdot \overline{PC} \cdot \overline{PC}}{\overline{PC}}$
 $\overline{PB} = 9\overline{PC}$
 Alternativa (B)

3-  $\overline{AB} \cdot \overline{AC} = (\overline{AD})^2$
 $x \cdot (x+5) = 6^2$
 $x^2 + 5x - 36 = 0$
 $\Delta = 5^2 - 4 \cdot 1 \cdot (-36)$
 $\Delta = 25 + 144$
 $\Delta = 169$
 $x = \frac{-5 \pm \sqrt{169}}{2 \cdot 1}$
 $x = \frac{-5 \pm 13}{2}$
 $x_1 = \frac{-5 - 13}{2}$
 $x_1 = \frac{-18}{2}$
 $x_1 = -9$
 não convém
 $x_2 = \frac{-5 + 13}{2}$
 $x_2 = \frac{8}{2}$
 $x_2 = 4$
 Alternativa (E)

BC = diâmetro
 diâmetro = 2R
 diâmetro = 2 \cdot 2.5 \rightarrow 5cm

