S T Q Q S S D

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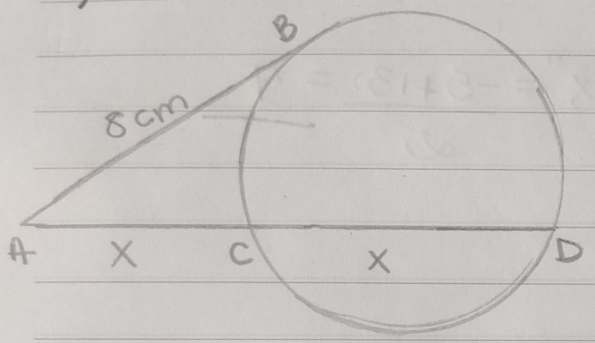
Tarefa Básica.

1)



$AC \cdot AD = AB \cdot AB$

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

$2x^2 = 64$

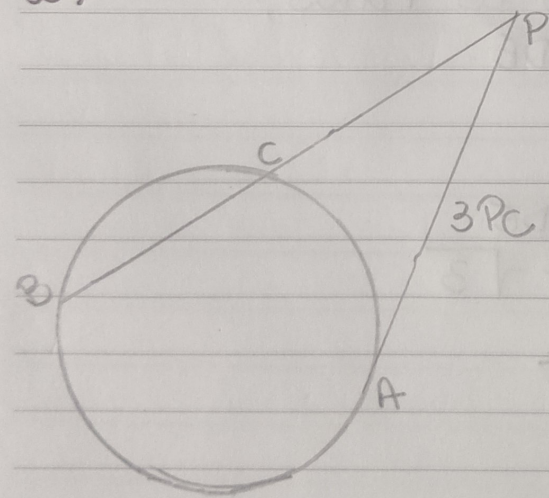
$x^2 = 32$

$x = \sqrt{32}$

$x = 4\sqrt{2}$

(E)

2)



$PC \cdot PB = PA \cdot PA$

$Pc \cdot PB = 3Pc \cdot 3Pc$

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

$PB = 9PC$

(B)

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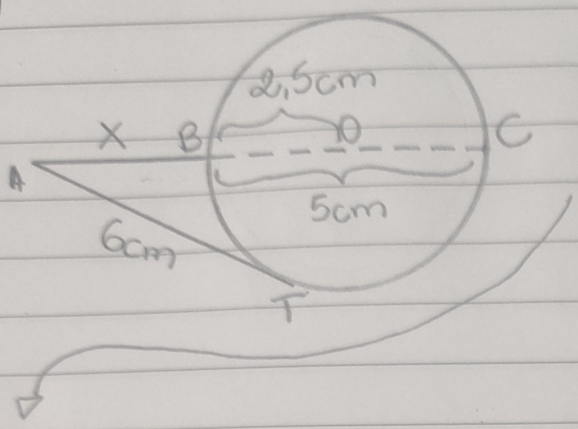
S T Q Q S S D

3)



$AB.AC = AT.AT$

$x.(x+5) = 6.6$

$x^2 + 5x = 36$

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

(E)

$\Delta = b^2 - 4AC$

$\Delta = 25 + 144$

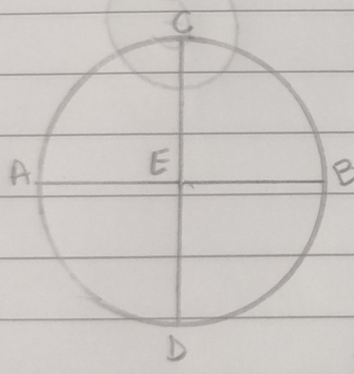
$\Delta = 169$

$x = \frac{-b \pm \sqrt{\Delta}}{2A}$

$x' = \frac{-5-13}{2} = -9$ ↓ NÃO convém

$x'' = \frac{-5+13}{2} = 4$

4)



$AE.BE = 3$

CD é o diametro da circunferência, ou seja, CE e DE são os raios, portanto, $CE = DE$.

$AE.BE = CE.DE$

$3 = CE.CE$

$3 = CE^2$

$\sqrt{3} = C$

$\overline{CD} = CE + DE$

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

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

(B)

S T Q Q S S D

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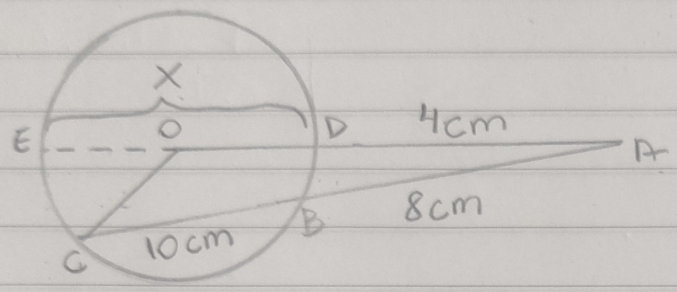
5)



$OD = \frac{DE}{2}$

$OD = \frac{32}{2}$

$OD = 16$

$AB \cdot AC = AD \cdot AE$

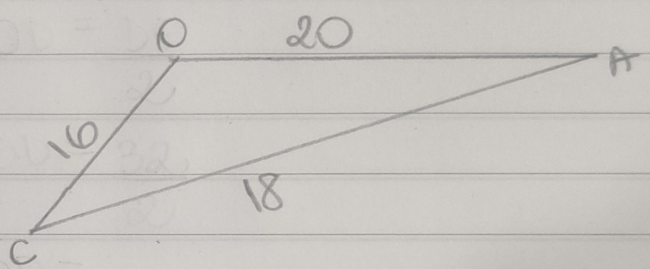
$8 \cdot 18 = 4 \cdot (x+4)$

$144 = 4x + 16$

$144 - 16 = 4x$

$\frac{128}{4} = x$

$32 = x$



$2p = 20 + 18 + 16$

$2p = 54\ cm$

(E)