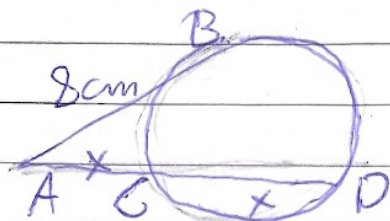


Potencia de Ponto - CT11317

Nome: Vinicius Feliciano Bulhões

1)



$$AB^2 = AC \cdot AD$$

$$AB = 8 \text{ cm}$$

$$AC = CD = x$$

$$AD = (AC + CD)$$

$$8^2 = x \cdot (x + x)$$

$$64 = x \cdot 2 \cdot x$$

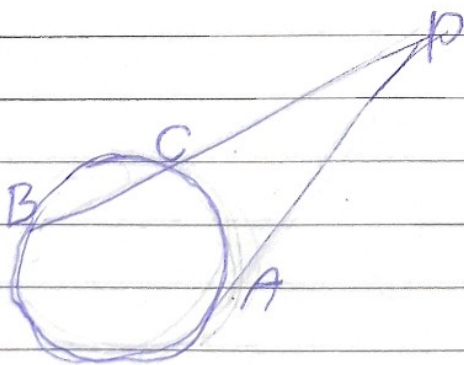
$$64 = 2 \cdot x^2$$

$$x^2 = 32$$

$$x = \sqrt{32}$$

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

2)



$$\frac{PB}{PA} = \frac{PC}{PD}$$

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

$$(3PC)^2 = PB \cdot PC$$

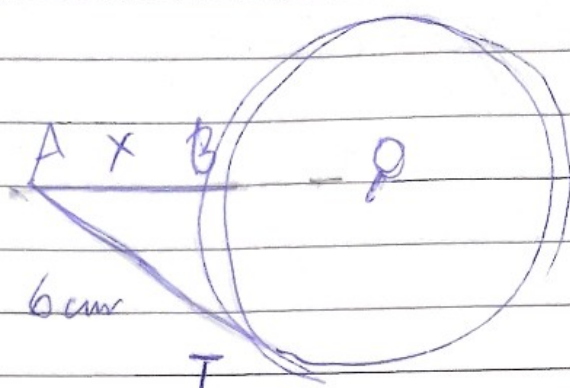
$$9PC^2 = PB \cdot PC$$

$$9PC = PB$$

$$PB = 9PC$$

$$PA = 3PC$$

3-



$$PT^2 = PA \cdot PB$$

$$AT^2 = AB \cdot 2 \cdot BO$$

$$6^2 = x \cdot (5 + x) = x^2 + 5x - 36 = 0$$

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

$$x = \frac{-5 \pm \sqrt{5^2 - 4 \cdot 1 \cdot (-36)}}{2 \cdot 1}$$

$$x = \frac{-5 \pm 13}{2}$$

$$x_1 = 4$$

$$x_2 = 9$$

$$AE \cdot EB = CE \cdot ED$$
$$CE = ED$$

$$\mathcal{O} = C E^2$$

$$CE = \sqrt{3}$$

$$CD = 2CE.$$

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

Parámetro

$$AC + CO + OA$$

$$18 + 16 + 20$$

54

$$AE \cdot AD = AC \cdot AB$$

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

$$16 \div \Delta R = 14 \mu$$

$$SR = 128$$

$$R = 128 / s$$

$R = 16$