Tarefa básica

1. $PA \cdot PB = PC \cdot PD$

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

$64 = 2x^2$

$64/2 = x^2$

$x^2 = 32$

$x = \sqrt{32} = 4\sqrt{2}$ //

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

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

$9PC^2 = PB \cdot PC$

$9PC = PB$

$PB = 9PC$ //

3. $x^2 + 5x + (2,5)^2 = (2,5)^2 + 36$

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

$\Delta = 25 + 144 = 169$

$x_1 = \frac{-5-13}{2}$ = não convem $\quad x = \frac{-5+13}{2} = \frac{8}{2} = 4$ //

4. $Ae \cdot eb = 3 \quad ce = eD \quad ce \cdot eD = Ae \cdot eb = 3$

$ce^2 = 3 \quad cd = ce + ed \rightarrow cd = ce + ce$

$ce = \sqrt{3} \quad cd = 2 \cdot ce \rightarrow cd = 2\sqrt{3}$

5. $4 \cdot (4 + 2R) = 18 \cdot 8$

$16 + 8R = 144$

$8R = 128$

$R = 16$

AC CO OA

18 + 16 20 = 54 //