

— ♥ — ♥ —

Potência de um ponto

♥ 1) $AB^2 = AC \cdot AD$

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

$$AC = CD = x$$

$$AD = (AC + CD)$$

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

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

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

$$x^2 = 64$$

$$2$$

$$x^2 = 32$$

$$x = \sqrt{32}$$

$$x = 4\sqrt{2} \text{ letra E}$$

2) $PA = 3 PC$

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

$$\frac{PA}{PC}$$

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

$$9PC = PB$$

$$PB = 9PC \text{ letra B}$$

atmora mu eb surmet

$$4) AE \cdot EB = 3$$

$$CE = ED$$

$$CE \cdot ED = AE \cdot EB = 3$$

$$CE^2 = 3$$

$$CE = \sqrt{3}$$

$$CD = CE + ED + \sqrt{3} + \sqrt{3}$$

$$CD = 2\sqrt{3} \text{ letra B}$$

$$5) AE \cdot AD = AC \cdot AB$$

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

$$16 + 8R = 144$$

$$8R = 128$$

$$R = \frac{128}{8}$$

$$R = 16$$

Perímetro:

$$AC + CO + OA$$

$$18 + 16 + 20 = 54 \text{ letra E}$$