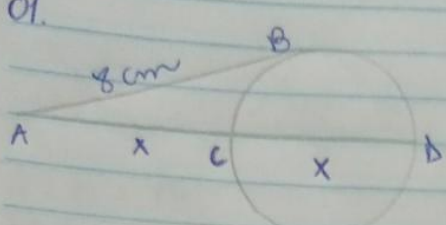


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## Potência de um ponto

### Exercícios 1, 2 e 3

01.



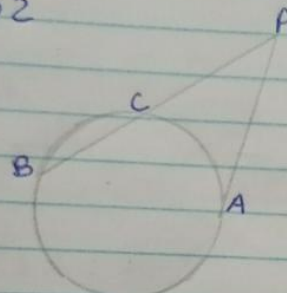
$(AB)^2 = AD \cdot AC$   
 $(AB)^2 = 2x \cdot x$   
 $8^2 = 2x^2$   
 $64 = 2x^2$

$2x^2 = 64$   
 $x^2 = \frac{64}{2}$   
 $x^2 = 32$

$x = \sqrt{32}$   
 $x = \sqrt{16 \cdot 2}$   
 $x = 4\sqrt{2}$

Resposta e

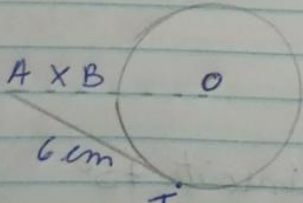
02.



$\overline{PA} \cdot \overline{PA} = \overline{PB} \cdot \overline{PC}$   
 $3\overline{PC} \cdot 3\overline{PC} = \overline{PB} \cdot \overline{PC}$   
 $9\overline{PC} = \overline{PB} \cdot \overline{PC}$   
 $9\overline{PC} = \overline{PB}$   
 $\overline{PB} = 9\overline{PC}$

Resposta B

03.



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

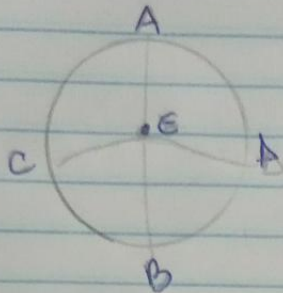
$x_1 = 4 \quad x_2 = -9$

$x = 4$

Resposta Z

## Exercícios 4 e 5

04.



$$AE \cdot EB = 3$$

$$CE = ED$$

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

$$CE^2 = 3$$

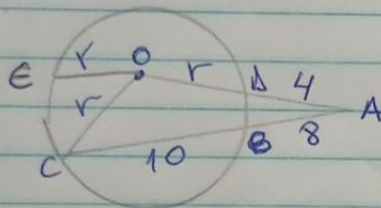
$$CE = \sqrt{3}$$

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

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

Resposta B

05.



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

Perímetro AOC

$$(4+2r) \cdot 4 \cdot 18 \cdot 8$$

$$AO = 4 + r$$

$$16 + 8r = 144$$

$$OC = r$$

$$8r = 128$$

$$AC = 10 + 8$$

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

$$r = 16$$

$$AOC = 20 + 16 + 18$$

$$r = 16$$

$$AOC = 54 //$$

Resposta E