

Exercício:

Determina a área do setor circular AOB e o comprimento do arco AB.

Área:

$$A_{\text{círculo}} = \pi r^2$$

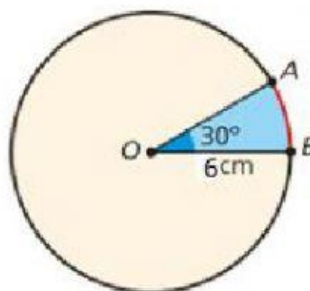
$$A_{\text{setor circular}} = \frac{\pi \times r^2 \times 360^\circ}{360}$$

$$A_{\text{setor circular}} = \frac{\pi \times r^2 \times \theta}{360}$$

$$A = \frac{\pi \times r^2 \times \theta}{360}$$

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comprimento do arco AB.

$$P_{\text{circunferência}} = 2\pi r$$

$$\ell = \frac{2\pi \times r \times \theta}{360}$$

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logo:

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