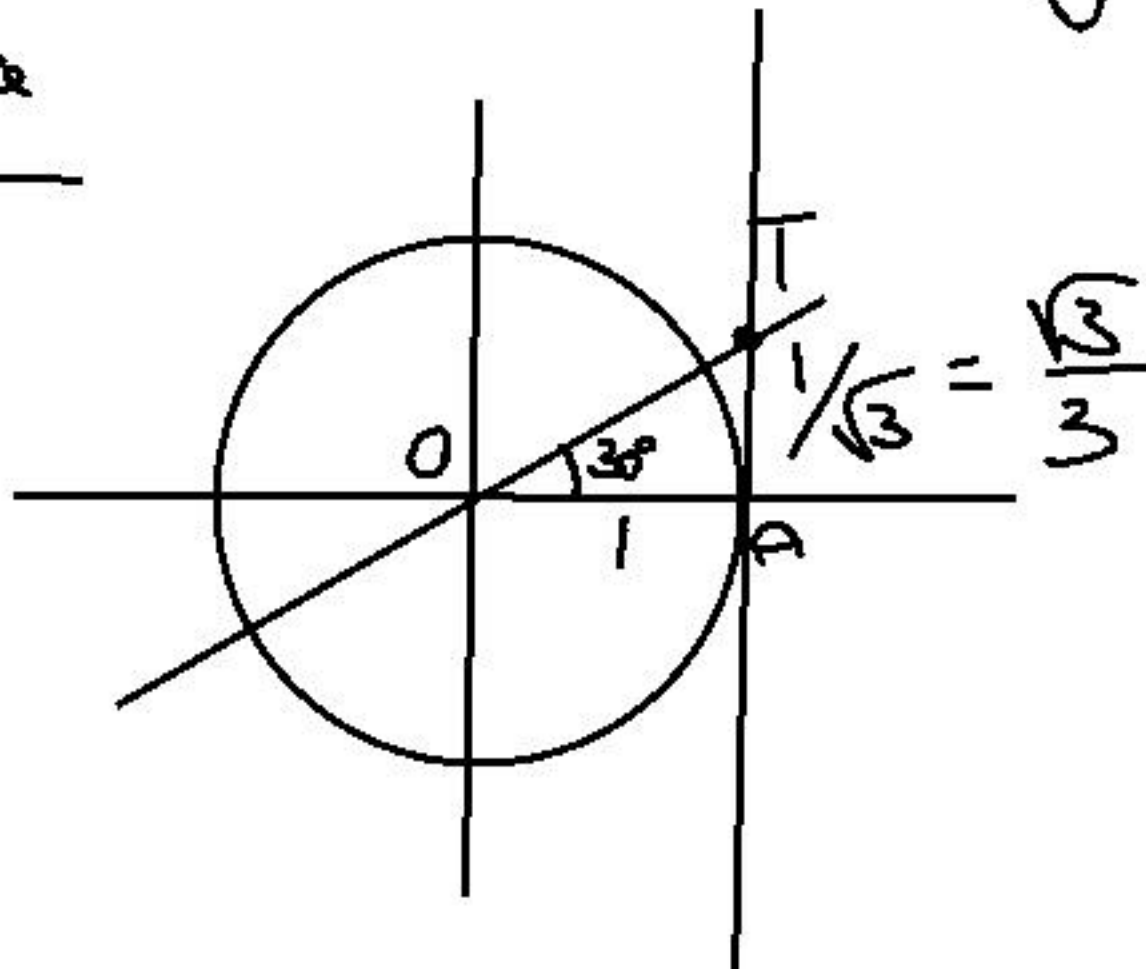


◀ circumf. geometria

$$m = \operatorname{tg} \alpha$$



$$\cos^2 \alpha + \sin^2 \alpha = 1$$

$$\operatorname{tg} \alpha = \frac{\sin \alpha}{\cos \alpha}$$

$$\operatorname{ctg} \alpha = \frac{1}{\operatorname{tg} \alpha} = \frac{\cos \alpha}{\sin \alpha}$$

$$\frac{1}{\cos^2 \alpha} = \frac{\cos^2 \alpha + \sin^2 \alpha}{\cos^2 \alpha} =$$

$$= \frac{\cos^2 \alpha}{\cos^2 \alpha} + \frac{\sin^2 \alpha}{\cos^2 \alpha} =$$

$$= 1 + \operatorname{tg}^2 \alpha$$

$$\cos^2 \alpha = 1 - \sin^2 \alpha$$

$$\cos \alpha = \begin{cases} \sqrt{1 - \sin^2 \alpha} \\ -\sqrt{1 - \sin^2 \alpha} \end{cases}$$

$$\alpha \in \left[ -\frac{\pi}{2}, \frac{\pi}{2} \right]$$

$$\alpha \in \left[ \frac{\pi}{2}, \frac{3\pi}{2} \right]$$

~~$$\cos \alpha = \sqrt{1 - \sin^2 \alpha}$$~~

