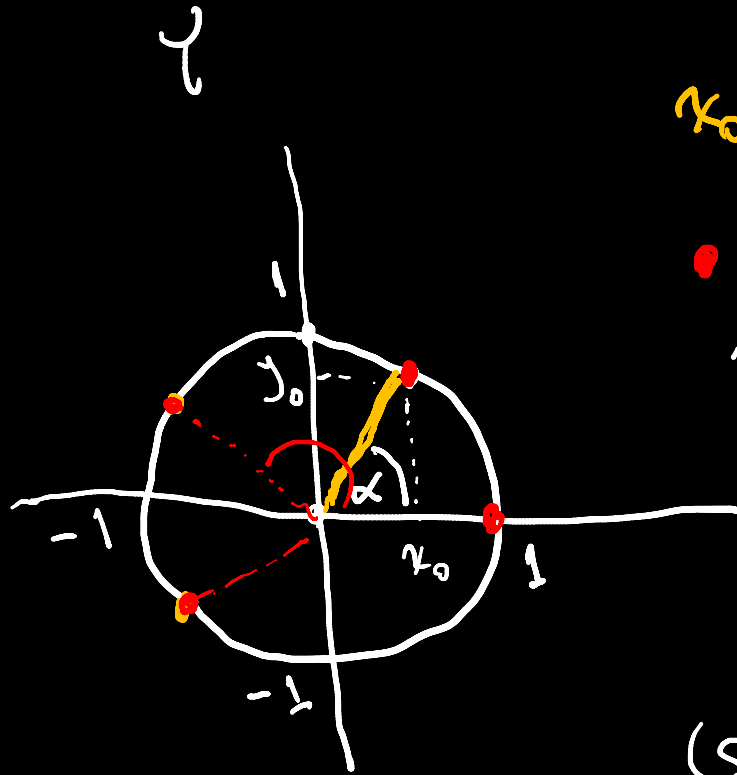


29/09/2026

TRIGONOMETRIA



$$x_0^2 + y_0^2 = 1$$

• $\longleftrightarrow \alpha$

$$x_0 = \cos \alpha$$

$$y_0 = \sin \alpha$$

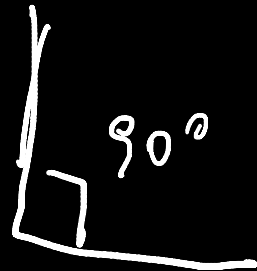
x

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

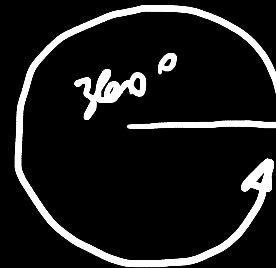
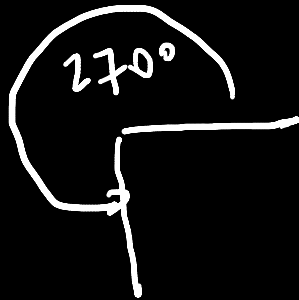
$$(\sin \alpha)^2 + (\cos \alpha)^2 = 1$$

¿Como se mide un ángulo?

~~α~~



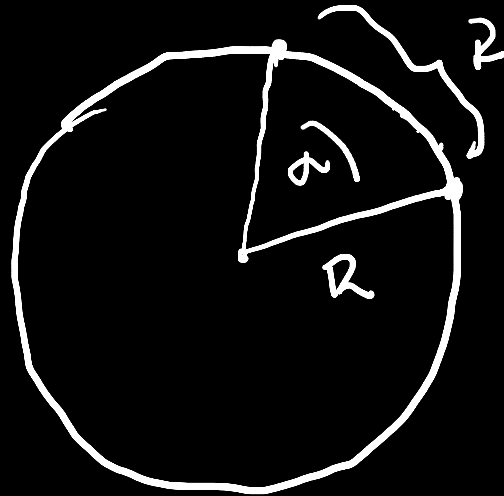
STAS



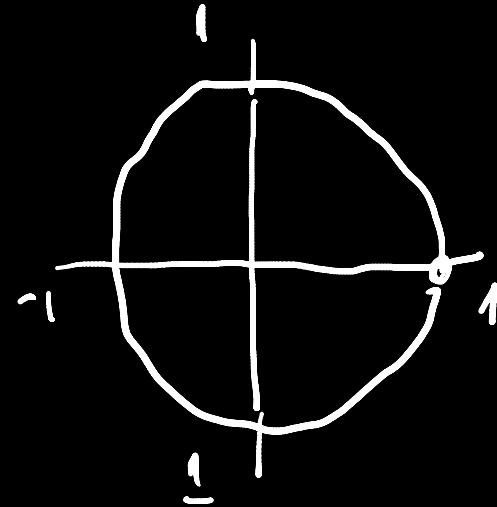
α 10°



RADIANS



$\alpha \rightarrow 1 \text{ radian}$



$$2\pi \text{ rad} = 360 \text{ grad}$$

$$1 \text{ rad} = \frac{360}{2\pi} \text{ grad} = 57.12 \text{ grad}$$

$$90^\circ =$$

tg α

tangente de α

$$\text{tg } \alpha = \frac{\text{sen } \alpha}{\text{cn } \alpha}$$

$$\text{sen } 0 = 0$$

$$\text{cn } 0 = 1$$

$$\text{sen } \frac{\pi}{2} = 1$$

$$\text{cn } \frac{\pi}{2} = 0$$

$$\text{sen } \pi = 0$$

$$\text{cn } \pi = -1$$

$$\text{sen } \frac{3\pi}{2} = -1$$

$$\text{cn } \frac{3\pi}{2} = 0$$

$$-1 \leq \sin \alpha \leq 1$$

$$\sin \alpha = \sin (\alpha + 2\pi i)$$

