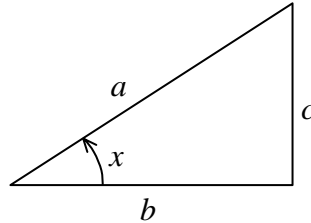


Definiciones y relaciones básicas

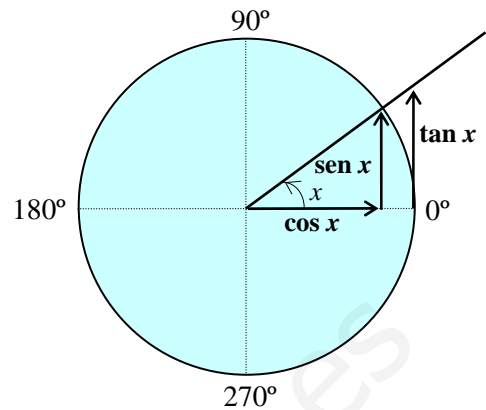
$$\text{sen } x = \frac{\text{cateto opuesto}}{\text{hipotenusa}} = \frac{c}{a}$$

$$\text{cos } x = \frac{\text{cateto contiguo}}{\text{hipotenusa}} = \frac{b}{a}$$

$$\text{tan } x = \frac{\text{cateto opuesto}}{\text{cateto contiguo}} = \frac{c}{b}$$



Circunferencia trigonométrica



$$\text{sen}^2 x + \text{cos}^2 x = 1 \quad 1 + \text{tan}^2 x = \frac{1}{\text{cos}^2 x} \quad \text{tan } x = \frac{\text{sen } x}{\text{cos } x}$$

$$\text{sec } x = \frac{1}{\text{cos } x} \quad \text{cosec } x = \frac{1}{\text{sen } x} \quad \text{cotan } x = \frac{\text{cos } x}{\text{sen } x} = \frac{1}{\text{tan } x}$$

Razones trigonométricas de los ángulos principales

°	0°	30°	45°	60°	90°	120°	135°	150°	180°	210°	225°	240°	270°	300°	315°	330°	360°
Rad	0	π/6	π/4	π/3	π/2	2π/3	3π/4	5π/6	π	7π/6	5π/4	4π/3	3π/2	5π/3	7π/4	11π/6	2π
sen x	0	1/2	√2/2	√3/2	1	√3/2	√2/2	1/2	0	-1/2	-√2/2	-√3/2	-1	-√3/2	-√2/2	-1/2	0
cos x	1	√3/2	√2/2	1/2	0	-1/2	-√2/2	-√3/2	-1	-√3/2	-√2/2	-1/2	0	1/2	√2/2	√3/2	1
tan x	0	√3/3	1	√3	∞	-√3	-1	-√3/3	0	√3/3	1	√3	∞	-√3	-1	-√3/3	0

Cuadrantes y signos

