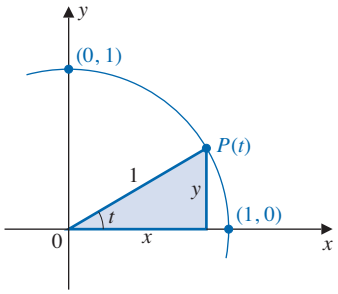
Trigonometría



$$\operatorname{sen} t = y \qquad \cos t = x$$

$$\tan t = \frac{\operatorname{sen} t}{\cos t} \qquad \cot t = \frac{\cos t}{\operatorname{sen} t}$$

$$\sec t = \frac{1}{\cos t} \qquad \csc t = \frac{1}{\operatorname{sen} t}$$

$$(\operatorname{sen} t)^2 + (\cos t)^2 = 1$$

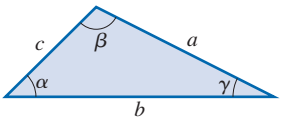
$$\operatorname{sen}(t_1 \pm t_2) = \operatorname{sen} t_1 \cos t_2 \pm \cos t_1 \operatorname{sen} t_2$$

$$\cos(t_1 \pm t_2) = \cos t_1 \cos t_2 \mp \operatorname{sen} t_1 \operatorname{sen} t_2$$

$$\operatorname{sen} t_1 \operatorname{sen} t_2 = \frac{1}{2}[\cos(t_1 - t_2) - \cos(t_1 + t_2)]$$

$$\cos t_1 \cos t_2 = \frac{1}{2}[\cos(t_1 - t_2) + \cos(t_1 + t_2)]$$

$$\operatorname{sen} t_1 \cos t_2 = \frac{1}{2}[\operatorname{sen}(t_1 - t_2) + \operatorname{sen}(t_1 + t_2)]$$



Ley de los senos: $\dfrac{\operatorname{sen}\alpha}{\alpha} = \dfrac{\operatorname{sen}\beta}{\beta} = \dfrac{\operatorname{sen}\gamma}{\gamma}$

Ley de los cosenos: $c^2 = a^2 + b^2 - 2ab\cos\gamma$

Series comunes

$$\operatorname{sen} t = \sum_{n=0}^{\infty} \frac{(-1)^n t^{2n+1}}{(2n+1)!} = t - \frac{t^3}{3!} + \frac{t^5}{5!} - \cdots$$

$$\cos t = \sum_{n=0}^{\infty} \frac{(-1)^n t^{2n}}{(2n)!} = 1 - \frac{t^2}{2!} + \frac{t^4}{4!} - \cdots$$

$$e^t = \sum_{n=0}^{\infty} \frac{t^n}{n!} = 1 + t + \frac{t^2}{2!} + \frac{t^3}{3!} + \cdots$$

$$\frac{1}{1-t} = \sum_{n=0}^{\infty} t^n = 1 + t + t^2 + \cdots, \qquad |t| < 1$$

El alfabeto griego

Alfa	A	α	Eta	H	η	Nu	N	ν	Tau	T	τ
Beta	B	β	Theta	Θ	θ	Xi	Ξ	ξ	Ypsilon	Υ	υ
Gamma	Γ	γ	Iota	I	ι	Omicron	O	o	Phi	Φ	ϕ
Delta	Δ	δ	Kappa	K	κ	Pi	Π	π	Ji	X	χ
Epsilon	E	ϵ	Lambda	Λ	λ	Rho	P	ρ	Psi	Ψ	ψ
Zeta	Z	ζ	Mu	M	μ	Sigma	Σ	σ	Omega	Ω	ω