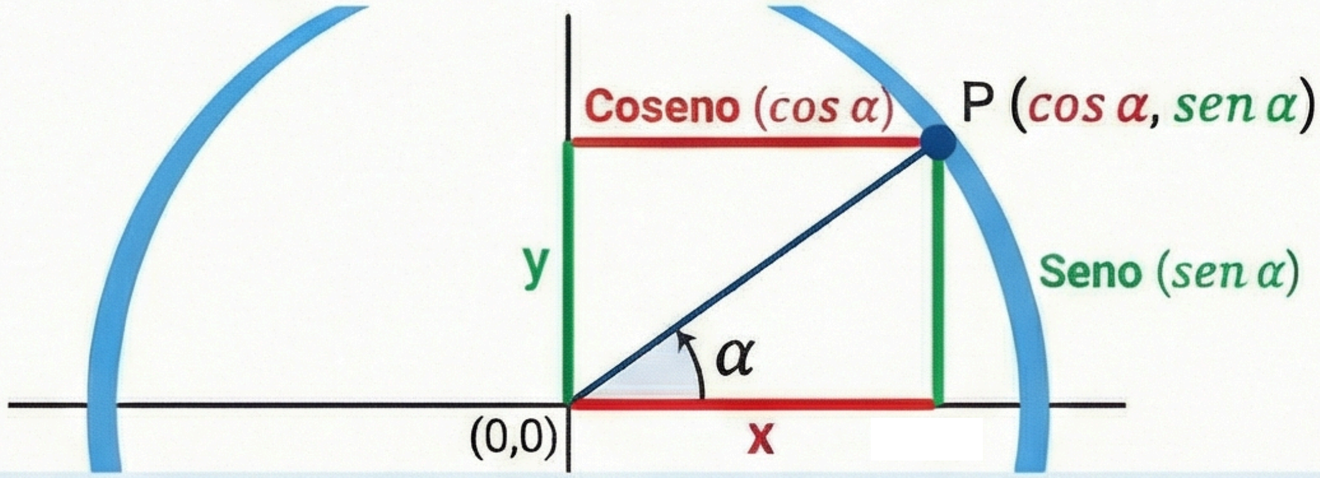
Goniometria e Trigonometria - Il Formulario Essenziale

Circonferenza Goniometrica



Le Basi - Relazioni Fondamentali

Identità Fondamentale

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

Tangente

$$tg\,\alpha = \frac{sen\,\alpha}{cos\,\alpha}$$

Cotangente

$$ctg\,\alpha = \frac{cos\,\alpha}{sen\,\alpha}$$

Secante

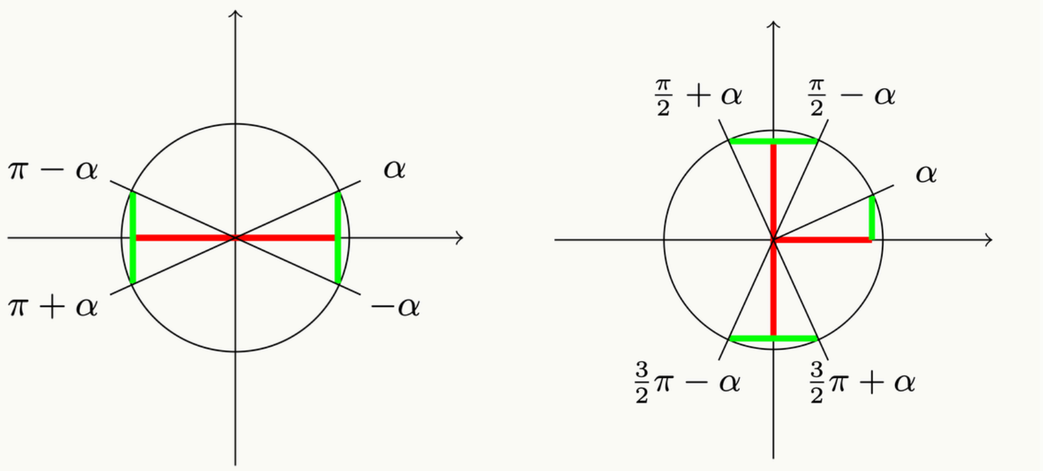
$$sec\,\alpha = \frac{1}{cos\,\alpha}$$

Cosecante

$$cosec\,\alpha = \frac{1}{sen\,\alpha}$$

Visualizzazione - Simmetrie e Valori Notevoli

Angoli Associati



Valori degli Angoli Fondamentali

Angolo (Radianti)	Seno (*sen*)	Coseno (*cos*)
$\pi/6$ (30°)	$1/2$	$\sqrt{3}/2$
$\pi/4$ (45°)	$1/\sqrt{2}$	$1/\sqrt{2}$
$\pi/3$ (60°)	$\sqrt{3}/2$	$1/2$

Strumenti Avanzati - Formulario Tecnico

Addizione e Sottrazione

$$\text{sen}(\alpha \pm \beta) = \text{sen}(\alpha)\cos(\beta) \pm \cos(\alpha)\text{sen}(\beta)$$

$$\cos(\alpha \pm \beta) = \cos(\alpha)\cos(\beta) \mp \text{sen}(\alpha)\text{sen}(\beta)$$

Formule di Duplicazione

$$\text{sen}(2\alpha) = 2\text{sen}(\alpha)\cos(\alpha)$$

$$\cos(2\alpha) = \cos^2(\alpha) - \text{sen}^2(\alpha)$$

Formule di Bisezione

$$\text{sen}\left(\frac{\alpha}{2}\right) = \pm\sqrt{\frac{1-\cos\alpha}{2}}$$

$$\cos\left(\frac{\alpha}{2}\right) = \pm\sqrt{\frac{1+\cos\alpha}{2}}$$