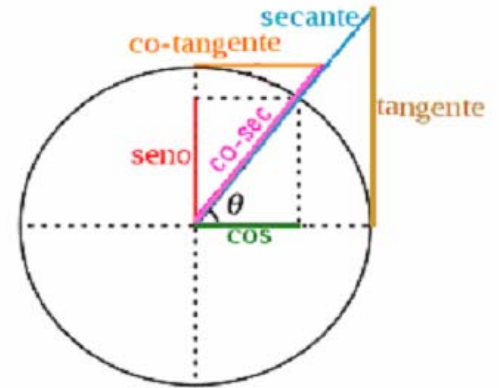


Tabela das Principais Identidades Trigonométricas

1. $\sin^2 x + \cos^2 x = 1.$
2. $1 + \operatorname{tg}^2 x = \sec^2 x.$
3. $1 + \operatorname{cotg}^2 x = \operatorname{cosec}^2 x.$
4. $\sin^2 x = \frac{1 - \cos 2x}{2}.$
5. $\cos^2 x = \frac{1 + \cos 2x}{2}.$
6. $\sin 2x = 2 \sin x \cos x.$
7. $2 \sin x \cos y = \sin(x - y) + \sin(x + y).$
8. $2 \sin x \sin y = \cos(x - y) - \cos(x + y).$
9. $2 \cos x \cos y = \cos(x - y) + \cos(x + y).$
10. $1 \pm \sin x = 1 \pm \cos\left(\frac{\pi}{2} - x\right).$



Identidades de soma e subtração

$$\sin(A \pm B) = \sin A \cos B \pm \sin B \cos A$$

$$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$\cot(A \pm B) = \frac{\cot A \cot B \mp 1}{\cot B \pm \cot A}$$

$\sin \theta \equiv \cos\left(\frac{\pi}{2} - \theta\right) \equiv \frac{1}{\operatorname{csc} \theta}$
$\cos \theta \equiv \sin\left(\frac{\pi}{2} - \theta\right) \equiv \frac{1}{\sec \theta}$
$\tan \theta \equiv \frac{\sin \theta}{\cos \theta} \equiv \cot\left(\frac{\pi}{2} - \theta\right) \equiv \frac{1}{\cot \theta}$
$\operatorname{csc} \theta \equiv \sec\left(\frac{\pi}{2} - \theta\right) \equiv \frac{1}{\sin \theta}$
$\sec \theta \equiv \operatorname{csc}\left(\frac{\pi}{2} - \theta\right) \equiv \frac{1}{\cos \theta}$
$\cot \theta \equiv \frac{\cos \theta}{\sin \theta} \equiv \tan\left(\frac{\pi}{2} - \theta\right) \equiv \frac{1}{\tan \theta}$