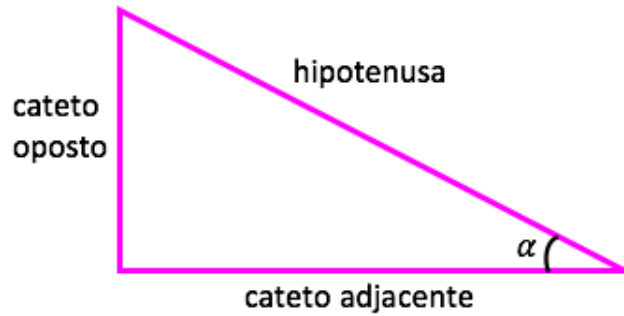


Razões trigonométricas → só se aplicam a triângulos retângulos



$$\sin \alpha = \frac{\text{cateto oposto}}{\text{hipotenusa}}$$

$$\cos \alpha = \frac{\text{cateto adjacente}}{\text{hipotenusa}}$$

$$\tan \alpha = \frac{\text{cateto oposto}}{\text{cateto adjacente}}$$

$$\blacktriangle \tan \alpha = \frac{\sin \alpha}{\cos \alpha}$$

$$\blacktriangle \sin \alpha = \cos(90^\circ - \alpha)$$

$$\blacktriangle \cos \alpha = \sin(90^\circ - \alpha)$$

Fórmula Fundamental da Trigonometria: $\sin^2 x + \cos^2 x = 1$

Tabela de Razões Trigonométricas

	30°	45°	60°
cosseno	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
seno	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
tangente	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$