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TRIGONOMETRIC IDENTITIES

Trig Ratios

soh-cah-toa

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

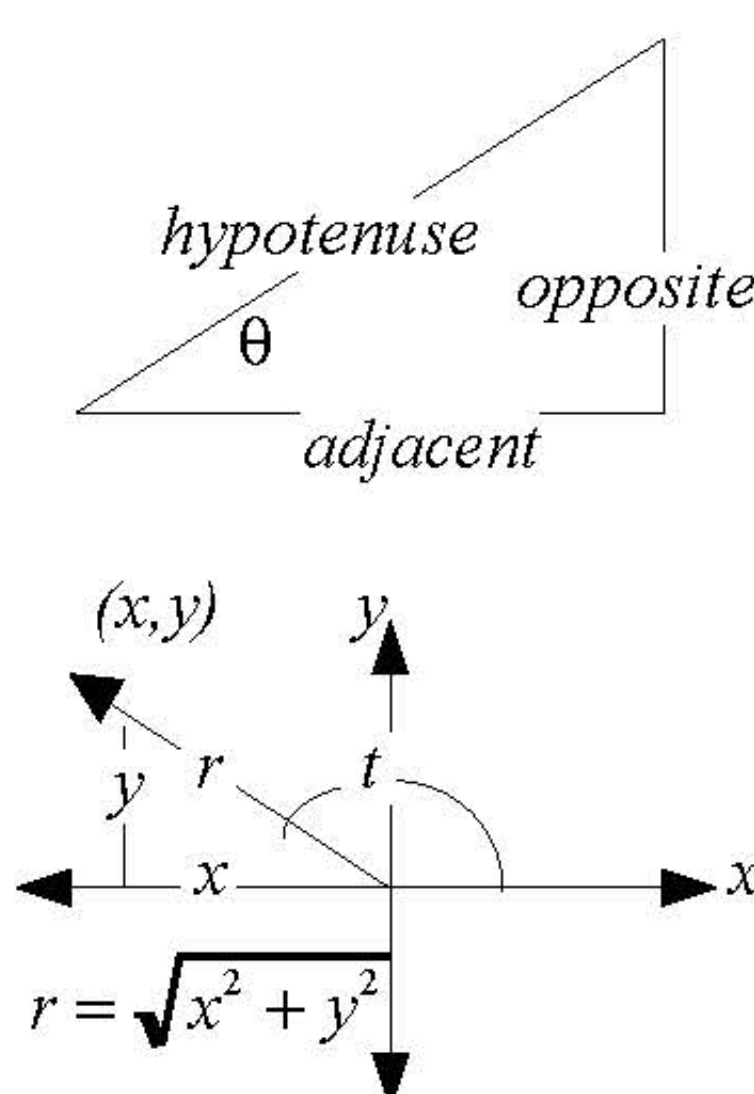
$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

cho-sha-caa

$$\csc \theta = \frac{\text{hyp}}{\text{opp}}$$

$$\sec \theta = \frac{\text{hyp}}{\text{adj}}$$

$$\cot \theta = \frac{\text{adj}}{\text{opp}}$$



Trigonometric Functions

$$\sin t = \frac{y}{r}$$

$$\cos t = \frac{x}{r}$$

$$\tan t = \frac{y}{x}$$

$$\csc t = \frac{r}{y}$$

$$\sec t = \frac{r}{x}$$

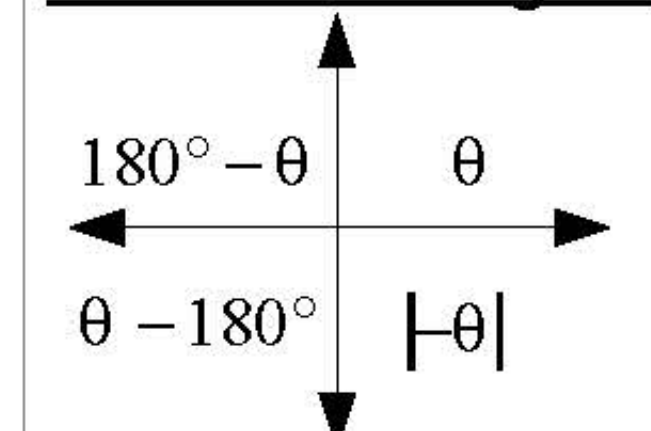
$$\cot t = \frac{x}{y}$$

Degrees and Radians

$$\theta = \frac{180^\circ}{\pi} \times t \quad t = \frac{\pi}{180^\circ} \times \theta$$

$$s = \text{Arclength} = r\theta = \frac{m^\circ}{360} r$$

Reference Angles



θ	0°	30°	45°	60°	90°
t	0	$\pi/6$	$\pi/4$	$\pi/3$	$\pi/2$
sin	$\frac{\sqrt{0}}{2}$	$\frac{\sqrt{1}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{4}}{2}$
cos	$\frac{\sqrt{4}}{2}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{1}}{2}$	$\frac{\sqrt{0}}{2}$
tan	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	∞

Reciprocal Identities

$$\sin \theta = \frac{1}{\csc \theta} \quad \sec \theta = \frac{1}{\cos \theta}$$

$$\cos \theta = \frac{1}{\sec \theta} \quad \csc \theta = \frac{1}{\sin \theta}$$

$$\tan \theta = \frac{1}{\cot \theta} \quad \cot \theta = \frac{1}{\tan \theta}$$

Quotient Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta} \quad \cot \theta = \frac{\cos \theta}{\sin \theta}$$

Odd Identities

$$\sin(-\theta) = -\sin \theta$$

$$\tan(-\theta) = -\tan \theta$$

$$\csc(-\theta) = -\csc \theta$$

$$\cot(-\theta) = -\cot \theta$$

Even Identities

$$\cos(-\theta) = \cos \theta$$

$$\sec(-\theta) = \sec \theta$$

Pythagorean Identities

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\tan^2 \theta + 1 = \sec^2 \theta$$

$$1 + \cot^2 \theta = \csc^2 \theta$$

$$\sin \theta = \pm \sqrt{1 - \cos^2 \theta}$$

$$\cos \theta = \pm \sqrt{1 - \sin^2 \theta}$$

Degrees-minutes-seconds

$$D^\circ m' s'' = D + \frac{m}{60} + \frac{s}{60^2}$$

Polar Equations

$$x = r \cos \theta$$

$$y = r \sin \theta$$

$$r^2 = x^2 + y^2$$

Cartesian Identities

$$\sin t = \frac{y}{r}$$

$$\cos t = \frac{x}{r}$$

$$\tan t = \frac{y}{x}$$

$$\csc t = \frac{r}{y}$$

$$\sec t = \frac{r}{x}$$

$$\cot t = \frac{x}{y}$$

CoFunction Identities

$$\sin \theta = \cos(90^\circ - \theta)$$

$$\cos \theta = \sin(90^\circ - \theta)$$

$$\cos t = \sin(\pi/2 - t)$$

$$\sin t = \cos(\pi/2 - t)$$

$$\tan \theta = \cot(90^\circ - \theta)$$

$$\cot \theta = \tan(90^\circ - \theta)$$

$$\cot t = \tan(\pi/2 - t)$$

$$\tan t = \cot(\pi/2 - t)$$

$$\sec \theta = \csc(90^\circ - \theta)$$

$$\csc \theta = \sec(90^\circ - \theta)$$

$$\csc t = \sec(\pi/2 - t)$$

$$\sec t = \csc(\pi/2 - t)$$



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