

Trig Cheat Sheet

Definition of the Trig Functions

Right triangle definition

For this definition we assume that

$$0 < \theta < \frac{\pi}{2} \text{ or } 0^\circ < \theta < 90^\circ$$



$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$$

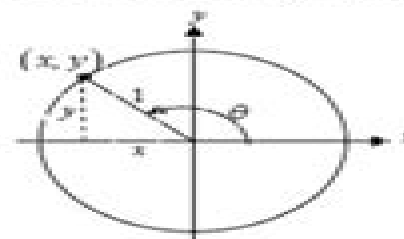
$$\csc \theta = \frac{\text{hypotenuse}}{\text{opposite}}$$

$$\sec \theta = \frac{\text{hypotenuse}}{\text{adjacent}}$$

$$\cot \theta = \frac{\text{adjacent}}{\text{opposite}}$$

Unit circle definition

For this definition θ is any angle.



$$\sin \theta = \frac{y}{1} = y$$

$$\cos \theta = \frac{x}{1} = x$$

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

$$\csc \theta = \frac{1}{y}$$

$$\sec \theta = \frac{1}{x}$$

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

Facts and Properties

Domain

The domain is all the values of θ that can be plugged into the function.

$$\sin \theta, \quad \theta \text{ can be any angle}$$

$$\cos \theta, \quad \theta \text{ can be any angle}$$

$$\tan \theta, \quad \theta = \left(n + \frac{1}{2}\right)\pi, \quad n = 0, \pm 1, \pm 2, \dots$$

$$\csc \theta, \quad \theta = n\pi, \quad n = 0, \pm 1, \pm 2, \dots$$

$$\sec \theta, \quad \theta = \left(n + \frac{1}{2}\right)\pi, \quad n = 0, \pm 1, \pm 2, \dots$$

$$\cot \theta, \quad \theta = n\pi, \quad n = 0, \pm 1, \pm 2, \dots$$

Range

The range is all possible values to get out of the function.

$$-1 \leq \sin \theta \leq 1$$

$$-1 \leq \cos \theta \leq 1$$

$$-\infty < \tan \theta < \infty$$

$$\csc \theta \geq 1 \text{ and } \csc \theta \leq -1$$

$$\sec \theta \geq 1 \text{ and } \sec \theta \leq -1$$

$$-\infty < \cot \theta < \infty$$

Period

The period of a function is the number, T , such that $f(\theta + T) = f(\theta)$. So, if ω is a fixed number and θ is any angle we have the following periods.

$$\sin(\omega \theta) \rightarrow T = \frac{2\pi}{\omega}$$

$$\cos(\omega \theta) \rightarrow T = \frac{2\pi}{\omega}$$

$$\tan(\omega \theta) \rightarrow T = \frac{\pi}{\omega}$$

$$\csc(\omega \theta) \rightarrow T = \frac{2\pi}{\omega}$$

$$\sec(\omega \theta) \rightarrow T = \frac{2\pi}{\omega}$$

$$\cot(\omega \theta) \rightarrow T = \frac{\pi}{\omega}$$

Graphing Sin Cheat Sheet

Christian Drosten



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