Trig Cheat Sheet

Definition of the Trig Functions

Right triangle definition

For this definition we assume that

$$0 < \theta < \frac{\pi}{2} \quad \text{or} \quad 0° < \theta < 90°.$$

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

$$\cos\theta = \frac{\text{adjacent}}{\text{hypotenuse}} \qquad \sec\theta = \frac{\text{hypotenuse}}{\text{adjacent}}$$
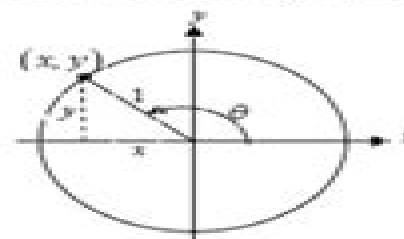
$$\tan\theta = \frac{\text{opposite}}{\text{adjacent}} \qquad \cot\theta = \frac{\text{adjacent}}{\text{opposite}}$$

Unit circle definition

For this definition θ is any angle.

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

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

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

Facts and Properties

Domain

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

$\sin\theta$, $\quad \theta$ can be any angle

$\cos\theta$, $\quad \theta$ can be any angle

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

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

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

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

Range

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

$-1 \le \sin\theta \le 1 \qquad \csc\theta \ge 1 \text{ and } \csc\theta \le -1$

$-1 \le \cos\theta \le 1 \qquad \sec\theta \ge 1 \text{ and } \sec\theta \le -1$

$-\infty < \tan\theta < \infty \qquad -\infty < \cot\theta < \infty$

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.

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

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

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

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

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

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

Graphing Sin Cheat Sheet

Scott Edward Morrison

Graphing Sin Cheat Sheet:

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