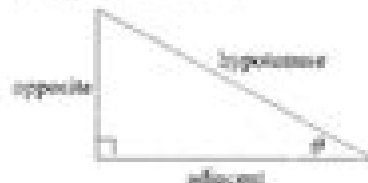


### Definition of the Trig Functions

#### Right triangle definition

For this definition we assume that

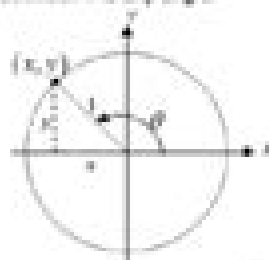
$$0 < \theta < \frac{\pi}{2} \text{ or } 0^\circ < \theta < 90^\circ.$$



$$\begin{aligned} \sin(\theta) &= \frac{\text{opposite}}{\text{hypotenuse}} & \csc(\theta) &= \frac{\text{hypotenuse}}{\text{opposite}} \\ \cos(\theta) &= \frac{\text{adjacent}}{\text{hypotenuse}} & \sec(\theta) &= \frac{\text{hypotenuse}}{\text{adjacent}} \\ \tan(\theta) &= \frac{\text{opposite}}{\text{adjacent}} & \cot(\theta) &= \frac{\text{adjacent}}{\text{opposite}} \end{aligned}$$

#### Unit Circle Definition

For this definition  $\theta$  is any angle



$$\begin{aligned} \sin(\theta) &= \frac{y}{r} = y & \csc(\theta) &= \frac{1}{y} \\ \cos(\theta) &= \frac{x}{r} = x & \sec(\theta) &= \frac{1}{x} \\ \tan(\theta) &= \frac{y}{x} & \cot(\theta) &= \frac{x}{y} \end{aligned}$$

### Facts and Properties

#### Domain

The domain is all the values of  $\theta$  that can be plugged into the function.

$\sin(\theta)$ ,  $\theta$  can be any angle

$\cos(\theta)$ ,  $\theta$  can be any angle

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

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

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

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

#### Period

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

$$\begin{aligned} \sin(\omega\theta) &\rightarrow T = \frac{2\pi}{\omega} \\ \cos(\omega\theta) &\rightarrow T = \frac{2\pi}{\omega} \\ \tan(\omega\theta) &\rightarrow T = \frac{\pi}{\omega} \\ \csc(\omega\theta) &\rightarrow T = \frac{2\pi}{\omega} \\ \sec(\omega\theta) &\rightarrow T = \frac{2\pi}{\omega} \\ \cot(\omega\theta) &\rightarrow T = \frac{\pi}{\omega} \end{aligned}$$

#### Range

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

$$\begin{aligned} -1 &\leq \sin(\theta) \leq 1 & -1 &\leq \cos(\theta) \leq 1 \\ -\infty &< \tan(\theta) < \infty & -\infty &< \cot(\theta) < \infty \\ \sec(\theta) &\geq 1 \text{ and } \sec(\theta) \leq -1 & \csc(\theta) &\geq 1 \text{ and } \csc(\theta) \leq -1 \end{aligned}$$

### Formulas and Identities

#### Tangent and Cotangent Identities

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

#### Reciprocal Identities

$$\begin{aligned} \csc(\theta) &= \frac{1}{\sin(\theta)} & \sin(\theta) &= \frac{1}{\csc(\theta)} \\ \sec(\theta) &= \frac{1}{\cos(\theta)} & \cos(\theta) &= \frac{1}{\sec(\theta)} \\ \cot(\theta) &= \frac{1}{\tan(\theta)} & \tan(\theta) &= \frac{1}{\cot(\theta)} \end{aligned}$$

#### Pythagorean Identities

$$\begin{aligned} \sin^2(\theta) + \cos^2(\theta) &= 1 \\ \tan^2(\theta) + 1 &= \sec^2(\theta) \\ 1 + \cot^2(\theta) &= \csc^2(\theta) \end{aligned}$$

#### Even/Odd Formulas

$$\begin{aligned} \sin(-\theta) &= -\sin(\theta) & \csc(-\theta) &= -\csc(\theta) \\ \cos(-\theta) &= \cos(\theta) & \sec(-\theta) &= \sec(\theta) \\ \tan(-\theta) &= -\tan(\theta) & \cot(-\theta) &= -\cot(\theta) \end{aligned}$$

#### Periodic Formulas

If  $n$  is an integer then,

$$\begin{aligned} \sin(\theta + 2n\pi) &= \sin(\theta) & \csc(\theta + 2n\pi) &= \csc(\theta) \\ \cos(\theta + 2n\pi) &= \cos(\theta) & \sec(\theta + 2n\pi) &= \sec(\theta) \\ \tan(\theta + n\pi) &= \tan(\theta) & \cot(\theta + n\pi) &= \cot(\theta) \end{aligned}$$

#### Degrees to Radians Formulas

If  $\theta$  is an angle in degrees and  $r$  is an angle in radians then

$$\frac{\pi}{180} = \frac{r}{\theta} \rightarrow r = \frac{\pi\theta}{180} \quad \text{and} \quad \theta = \frac{180r}{\pi}$$

#### Double Angle Formulas

$$\begin{aligned} \sin(2\theta) &= 2 \sin(\theta) \cos(\theta) \\ \cos(2\theta) &= \cos^2(\theta) - \sin^2(\theta) \\ &= 2 \cos^2(\theta) - 1 \\ &= 1 - 2 \sin^2(\theta) \end{aligned}$$

$$\tan(2\theta) = \frac{2 \tan(\theta)}{1 - \tan^2(\theta)}$$

#### Half Angle Formulas

$$\begin{aligned} \sin\left(\frac{\theta}{2}\right) &= \pm \sqrt{\frac{1 - \cos(\theta)}{2}} \\ \cos\left(\frac{\theta}{2}\right) &= \pm \sqrt{\frac{1 + \cos(\theta)}{2}} \\ \tan\left(\frac{\theta}{2}\right) &= \pm \sqrt{\frac{1 - \cos(\theta)}{1 + \cos(\theta)}} \end{aligned}$$

#### Half Angle Formulas (alternate form)

$$\begin{aligned} \sin^2(\theta) &= \frac{1}{2}(1 - \cos(2\theta)) & \tan^2(\theta) &= \frac{1 - \cos(2\theta)}{1 + \cos(2\theta)} \\ \cos^2(\theta) &= \frac{1}{2}(1 + \cos(2\theta)) \end{aligned}$$

#### Sum and Difference Formulas

$$\begin{aligned} \sin(\alpha + \beta) &= \sin(\alpha) \cos(\beta) + \cos(\alpha) \sin(\beta) \\ \cos(\alpha + \beta) &= \cos(\alpha) \cos(\beta) - \sin(\alpha) \sin(\beta) \\ \tan(\alpha + \beta) &= \frac{\tan(\alpha) + \tan(\beta)}{1 - \tan(\alpha) \tan(\beta)} \end{aligned}$$

#### Product to Sum Formulas

$$\begin{aligned} \sin(\alpha) \sin(\beta) &= \frac{1}{2} [\cos(\alpha - \beta) - \cos(\alpha + \beta)] \\ \cos(\alpha) \cos(\beta) &= \frac{1}{2} [\cos(\alpha - \beta) + \cos(\alpha + \beta)] \\ \sin(\alpha) \cos(\beta) &= \frac{1}{2} [\sin(\alpha + \beta) + \sin(\alpha - \beta)] \\ \cos(\alpha) \sin(\beta) &= \frac{1}{2} [\sin(\alpha + \beta) - \sin(\alpha - \beta)] \end{aligned}$$

#### Sum to Product Formulas

$$\begin{aligned} \sin(\alpha) + \sin(\beta) &= 2 \sin\left(\frac{\alpha + \beta}{2}\right) \cos\left(\frac{\alpha - \beta}{2}\right) \\ \sin(\alpha) - \sin(\beta) &= 2 \cos\left(\frac{\alpha + \beta}{2}\right) \sin\left(\frac{\alpha - \beta}{2}\right) \\ \cos(\alpha) + \cos(\beta) &= 2 \cos\left(\frac{\alpha + \beta}{2}\right) \cos\left(\frac{\alpha - \beta}{2}\right) \\ \cos(\alpha) - \cos(\beta) &= -2 \sin\left(\frac{\alpha + \beta}{2}\right) \sin\left(\frac{\alpha - \beta}{2}\right) \end{aligned}$$

#### Cofunction Formulas

$$\begin{aligned} \sin\left(\frac{\pi}{2} - \theta\right) &= \cos(\theta) & \cos\left(\frac{\pi}{2} - \theta\right) &= \sin(\theta) \\ \csc\left(\frac{\pi}{2} - \theta\right) &= \sec(\theta) & \sec\left(\frac{\pi}{2} - \theta\right) &= \csc(\theta) \\ \tan\left(\frac{\pi}{2} - \theta\right) &= \cot(\theta) & \cot\left(\frac{\pi}{2} - \theta\right) &= \tan(\theta) \end{aligned}$$

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