

Trigonometric Formula Sheet

All formulas below must be memorized unless it is given to you on your formula sheet.

Right Triangle Trigonometry



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

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

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

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

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

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

Tangent & Cotangent Identities

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

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

Reciprocal Identities

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

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

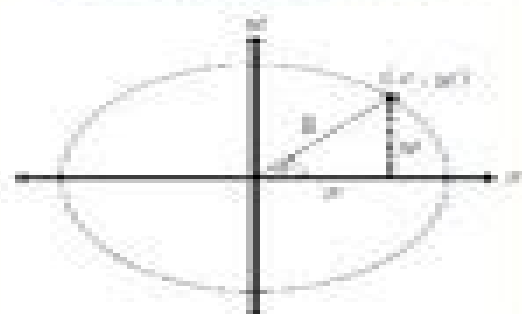
$$\cos \theta = \frac{1}{\sec \theta}$$

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

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

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

Unit Circle Trigonometry



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

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

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

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

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

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

Signs on the Unit Circle

$$\left(\frac{\theta}{2}\right) \in \left(\frac{\pi}{2}, \pi\right) \Rightarrow \text{all are negative}$$

$$\left(\frac{\theta}{2}\right) \in \left(\pi, \frac{3\pi}{2}\right) \Rightarrow \text{all are negative}$$

$$\left(\frac{\theta}{2}\right) \in \left(\frac{3\pi}{2}, 2\pi\right) \Rightarrow \text{all are negative}$$

Definitions of Inverse Trigonometric

$\theta = \sin^{-1}(x)$ is equal to x if $\sin \theta$

$\theta = \cos^{-1}(x)$ is equal to x if $\cos \theta$

$\theta = \tan^{-1}(x)$ is equal to x if $\tan \theta$

Other Notations

$$\sin^{-1}(x) = \arcsin(x)$$

$$\cos^{-1}(x) = \arccos(x)$$

$$\tan^{-1}(x) = \arctan(x)$$

Pythagorean Identities

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

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

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

Inverse Properties

$$\sin(\sin^{-1}(x)) = x \quad \sin^{-1}(\sin(x)) = x$$

$$\cos(\cos^{-1}(x)) = x \quad \cos^{-1}(\cos(x)) = x$$

$$\tan(\tan^{-1}(x)) = x \quad \tan^{-1}(\tan(x)) = x$$

Co-function Formulas

$$\sin\left(\frac{\pi}{2} - \theta\right) = \cos \theta$$

$$\cos\left(\frac{\pi}{2} - \theta\right) = \sin \theta$$

$$\tan\left(\frac{\pi}{2} - \theta\right) = \cot \theta$$

$$\cot\left(\frac{\pi}{2} - \theta\right) = \tan \theta$$

$$\sec\left(\frac{\pi}{2} - \theta\right) = \csc \theta$$

$$\csc\left(\frac{\pi}{2} - \theta\right) = \sec \theta$$

Domain and Range of Inverse Trigonometric

Function	Domain	Range	Quadrants
$\theta = \sin^{-1}(x)$	$-1 \leq x \leq 1$	$-\frac{\pi}{2} \leq \theta \leq \frac{\pi}{2}$	I & IV
$\theta = \cos^{-1}(x)$	$-1 \leq x \leq 1$	$0 \leq \theta \leq \pi$	I & II
$\theta = \tan^{-1}(x)$	$-\infty \leq x \leq \infty$	$-\frac{\pi}{2} < \theta < \frac{\pi}{2}$	I & IV

Sum and Difference Formulas

$$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$$

$$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$$

$$\tan(\alpha \pm \beta) = \frac{\sin \alpha \cos \beta \pm \cos \alpha \sin \beta}{\cos \alpha \cos \beta \mp \sin \alpha \sin \beta}$$

$$\cot(\alpha \pm \beta) = \frac{\cos \alpha \cos \beta \mp \sin \alpha \sin \beta}{\sin \alpha \cos \beta \pm \cos \alpha \sin \beta}$$

$$\sec(\alpha \pm \beta) = \frac{1}{\cos(\alpha \pm \beta)}$$

$$\csc(\alpha \pm \beta) = \frac{1}{\sin(\alpha \pm \beta)}$$

On the back page, will find a completed unit circle that you will have to be able to do on your own.

Sum and Difference Formulas

$$\sin(\alpha \pm \beta) = \sin \alpha \cos \beta \pm \cos \alpha \sin \beta$$

$$\cos(\alpha \pm \beta) = \cos \alpha \cos \beta \mp \sin \alpha \sin \beta$$

$$\tan(\alpha \pm \beta) = \frac{\sin \alpha \cos \beta \pm \cos \alpha \sin \beta}{\cos \alpha \cos \beta \mp \sin \alpha \sin \beta}$$

$$\cot(\alpha \pm \beta) = \frac{\cos \alpha \cos \beta \mp \sin \alpha \sin \beta}{\sin \alpha \cos \beta \pm \cos \alpha \sin \beta}$$

$$\sec(\alpha \pm \beta) = \frac{1}{\cos(\alpha \pm \beta)}$$

$$\csc(\alpha \pm \beta) = \frac{1}{\sin(\alpha \pm \beta)}$$

"sine, cosine, cosine, sine, secant, sign"

"tangent is a sum, and very well-remembered"

Trigonometry Formula Sheet

M Mark



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