

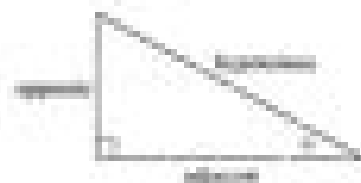
Trig Cheat Sheet

Definition of the Trig Functions

Right-triangle Definition

For the definition to ensure that

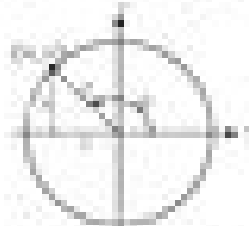
$$\sin^2 \theta + \cos^2 \theta = 1 \quad \text{and} \quad \tan^2 \theta + 1 = \sec^2 \theta$$



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

Unit-circle Definition

For this definition θ is any angle



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

Range and Properties

Domain

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

$\sin \theta$, θ can be any angle

$\cos \theta$, θ can be any angle

$$\tan \theta, \theta \neq \frac{\pi}{2} + k\pi, k = 0, \pm 1, \pm 2, \dots$$

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

$$\sec \theta, \theta \neq \frac{\pi}{2} + k\pi, k = 0, \pm 1, \pm 2, \dots$$

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

Range

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

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

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

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

Period

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

$$\sin(\theta + T) \rightarrow T = \frac{2\pi}{1}$$

$$\cos(\theta + T) \rightarrow T = \frac{2\pi}{1}$$

$$\tan(\theta + T) \rightarrow T = \frac{2\pi}{1}$$

$$\csc(\theta + T) \rightarrow T = \frac{2\pi}{1}$$

$$\sec(\theta + T) \rightarrow T = \frac{2\pi}{1}$$

$$\cot(\theta + T) \rightarrow T = \frac{2\pi}{1}$$

Formulas and Identities

Tangent and Cotangent Identities

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

Reciprocal Identities

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

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

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

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

Pythagorean Identities

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

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

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

Even-Odd Formulas

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

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

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

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

Double-Angle Formulas

If θ is an angle

$$\sin(2\theta) = 2\sin \theta \cos \theta \quad \cos(2\theta) = \cos^2 \theta - \sin^2 \theta$$

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

$$\sec(2\theta) = \frac{1}{\cos(2\theta)} \quad \csc(2\theta) = \frac{1}{\sin(2\theta)}$$

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

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

Sum-to-Product Formulas

$$\sin(2\theta) = 2\sin \theta \cos \theta$$

$$\cos(2\theta) = \cos^2 \theta - \sin^2 \theta$$

$$= 2\cos^2 \theta - 1$$

$$= 1 - 2\sin^2 \theta$$

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

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

$$\sec(2\theta) = \frac{1}{\cos(2\theta)}$$

$$\csc(2\theta) = \frac{1}{\sin(2\theta)}$$

Sum-to-Sum Formulas

If θ is an angle in degrees and ϕ is an angle in radians then

$$\frac{\theta}{180} = \frac{\phi}{1} \quad \text{or} \quad \theta = \frac{180}{1} \phi \quad \text{and} \quad \phi = \frac{180}{1} \theta$$

Half-Angle Formulas

where θ is

$$\sin \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{2}} \quad \cos \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{2}}$$

$$\tan \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} \quad \cot \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{1 - \cos \theta}}$$

$$\sec \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{1 - \cos \theta}} \quad \csc \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}}$$

$$\tan \frac{\theta}{2} = \pm \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} \quad \cot \frac{\theta}{2} = \pm \sqrt{\frac{1 + \cos \theta}{1 - \cos \theta}}$$

Sum and Difference Formulas

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

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

$\tan(\alpha \pm \beta) = \frac{\tan \alpha \pm \tan \beta}{1 \mp \tan \alpha \tan \beta}$

$\cot(\alpha \pm \beta) = \frac{\cot \alpha \cot \beta \pm 1}{\cot \beta \mp \cot \alpha}$

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

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

Product-to-Sum Formulas

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

$$\cos \alpha \cos \beta = \frac{1}{2} [\cos(\alpha - \beta) + \cos(\alpha + \beta)]$$

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

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

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

$$\cos \alpha \cos \beta = \frac{1}{2} [\cos(\alpha - \beta) + \cos(\alpha + \beta)]$$

Sum-to-Product Formulas

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

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

$$\cos \alpha + \cos \beta = 2 \cos \left(\frac{\alpha + \beta}{2} \right) \cos \left(\frac{\alpha - \beta}{2} \right)$$

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

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

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

Collection Formulas

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

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

$$\sin \left(\frac{3\pi}{2} - \theta \right) = -\cos \theta \quad \cos \left(\frac{3\pi}{2} - \theta \right) = \sin \theta$$

$$\sin \left(\frac{3\pi}{2} + \theta \right) = -\cos \theta \quad \cos \left(\frac{3\pi}{2} + \theta \right) = -\sin \theta$$

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I. M. Kuntsevich, Sheleg



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Circular Functions and Graphs Alpha & Omega Publishing,2001-03-01 **Generalized Trigonometric Functions** Caroline Avery Lester,1928 Trigonometric Functions Alexey A. Panchishkin,E. Shavgulidze,1988 *Notes on the Circular Functions* Jeffrey Dennis Weston,University College of Swansea. Department of Pure Mathematics,1966 **On the Definitions of the Trigonometric Functions** Alexander Macfarlane,1893 *A Guided Discovery Approach to Teaching Transformations of Trigonometric Functions* ,2010 Tables of Trigonometric Functions for the Numerical Computation of Electron Density in Crystals I. M. Kuntsevich,Sheleg,1967 *Graph of Trigonometric Functions* Indrajeet Kumar,2020-06-04

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