

Trigonometry Cheat Sheet

Definitions 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 θ is any angle.



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

Domain

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

$$\begin{aligned} \sin \theta &: \theta \text{ can be any angle} \\ \csc \theta &: \theta \text{ can be any angle} \\ \cos \theta &: \theta = \left(n + \frac{\pi}{2}\right)\pi, \quad n = 0, \pm 1, \pm 2, \dots \\ \sec \theta &: \theta = n\pi, \quad n = 0, \pm 1, \pm 2, \dots \\ \tan \theta &: \theta = \left(n + \frac{\pi}{2}\right)\pi, \quad n = 0, \pm 1, \pm 2, \dots \\ \cot \theta &: \theta = n\pi, \quad n = 0, \pm 1, \pm 2, \dots \end{aligned}$$

Range

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

$$\begin{aligned} -1 &\leq \sin \theta \leq 1 & \text{and } \theta \in \mathbb{R} & \text{ implies } \theta \in [-\frac{\pi}{2}, \frac{\pi}{2}] \\ -1 &\leq \cos \theta \leq 1 & \text{and } \theta \in \mathbb{R} & \text{ implies } \theta \in [0, \pi] \\ -\infty &\leq \tan \theta \leq \infty & \text{and } \theta \in \mathbb{R} & \text{ implies } \theta \in \mathbb{R} \end{aligned}$$

Period

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

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

Identities and Properties

Trigonometric Identities

Pythagorean Identities

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

Double Angle Formulas

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

Sum and Difference Formulas

$$\begin{aligned} \sin(\theta \pm \phi) &= \sin \theta \cos \phi \pm \cos \theta \sin \phi \\ \cos(\theta \pm \phi) &= \cos \theta \cos \phi \mp \sin \theta \sin \phi \\ \tan(\theta \pm \phi) &= \frac{\tan \theta \pm \tan \phi}{1 \mp \tan \theta \tan \phi} \end{aligned}$$

Product to Sum Formulas

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

Sum to Product Formulas

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

Formulas and Identities

Multiple Angle Formulas

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

Sum and Difference Formulas

$$\begin{aligned} \sin(\theta \pm \phi) &= \sin \theta \cos \phi \pm \cos \theta \sin \phi \\ \cos(\theta \pm \phi) &= \cos \theta \cos \phi \mp \sin \theta \sin \phi \\ \tan(\theta \pm \phi) &= \frac{\tan \theta \pm \tan \phi}{1 \mp \tan \theta \tan \phi} \end{aligned}$$

Product to Sum Formulas

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

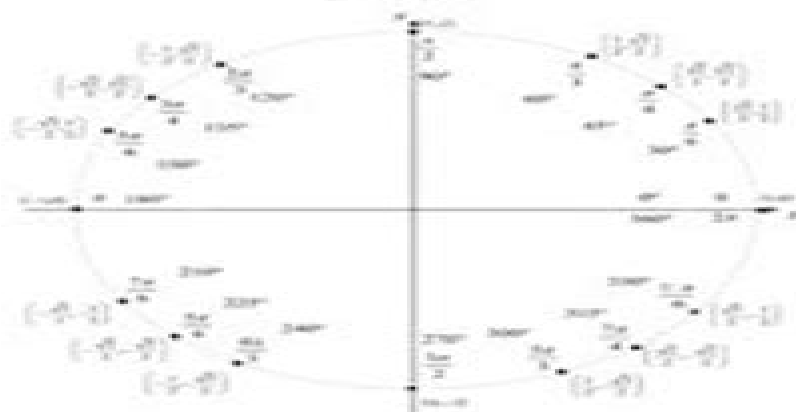
Sum to Product Formulas

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

Co-function Formulas

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

Unit Circle



For any ordered pair on the unit circle $(x, y) = (\cos \theta, \sin \theta)$ and $\cos^2 \theta + \sin^2 \theta = 1$

Examples

$$\sin \left(\frac{5\pi}{6} \right) = \frac{1}{2}$$

$$\cos \left(\frac{4\pi}{3} \right) = -\frac{1}{2}$$

Reverse Trig Functions

Definition

$$\begin{aligned} y = \sin^{-1} x & \text{ is equivalent to } x = \sin y \\ y = \cos^{-1} x & \text{ is equivalent to } x = \cos y \\ y = \tan^{-1} x & \text{ is equivalent to } x = \tan y \end{aligned}$$

Domain and Range

$$\begin{aligned} y = \sin^{-1} x & \text{ Domain: } [-1, 1] \text{ Range: } \left[-\frac{\pi}{2}, \frac{\pi}{2}\right] \\ y = \cos^{-1} x & \text{ Domain: } [-1, 1] \text{ Range: } [0, \pi] \\ y = \tan^{-1} x & \text{ Domain: } \mathbb{R} \text{ Range: } \left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \end{aligned}$$

General Properties

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

Adjoint Functions

$$\begin{aligned} \sin^{-1} x &= \arcsin x \\ \cos^{-1} x &= \arccos x \\ \tan^{-1} x &= \arctan x \end{aligned}$$

Law of Sines, Cosines and Tangents



Law of Sines

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Law of Cosines

$$\begin{aligned} a^2 &= b^2 + c^2 - 2bc \cos A \\ b^2 &= a^2 + c^2 - 2ac \cos B \\ c^2 &= a^2 + b^2 - 2ab \cos C \end{aligned}$$

Half-Angle Formulas

$$\begin{aligned} \sin \frac{\theta}{2} &= \pm \sqrt{\frac{1 - \cos \theta}{2}} \\ \cos \frac{\theta}{2} &= \pm \sqrt{\frac{1 + \cos \theta}{2}} \end{aligned}$$

Law of Tangents

$$\begin{aligned} \frac{a-b}{a+b} &= \frac{\tan \left(\frac{A-B}{2} \right)}{\tan \left(\frac{A+B}{2} \right)} \\ \frac{b-c}{b+c} &= \frac{\tan \left(\frac{B-C}{2} \right)}{\tan \left(\frac{B+C}{2} \right)} \\ \frac{c-a}{c+a} &= \frac{\tan \left(\frac{C-A}{2} \right)}{\tan \left(\frac{C+A}{2} \right)} \end{aligned}$$

Trigonometry Cheat Sheet

Tim Hill

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Trigonometry Cheat Sheet

1. Understanding the eBook Trigonometry Cheat Sheet
 - The Rise of Digital Reading Trigonometry Cheat Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometry Cheat Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trigonometry Cheat Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometry Cheat Sheet
 - Personalized Recommendations
 - Trigonometry Cheat Sheet User Reviews and Ratings
 - Trigonometry Cheat Sheet and Bestseller Lists
5. Accessing Trigonometry Cheat Sheet Free and Paid eBooks
 - Trigonometry Cheat Sheet Public Domain eBooks
 - Trigonometry Cheat Sheet eBook Subscription Services
 - Trigonometry Cheat Sheet Budget-Friendly Options

6. Navigating Trigonometry Cheat Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Trigonometry Cheat Sheet Compatibility with Devices
 - Trigonometry Cheat Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trigonometry Cheat Sheet
 - Highlighting and Note-Taking Trigonometry Cheat Sheet
 - Interactive Elements Trigonometry Cheat Sheet
8. Staying Engaged with Trigonometry Cheat Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trigonometry Cheat Sheet
9. Balancing eBooks and Physical Books Trigonometry Cheat Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trigonometry Cheat Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Trigonometry Cheat Sheet
 - Setting Reading Goals Trigonometry Cheat Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Trigonometry Cheat Sheet
 - Fact-Checking eBook Content of Trigonometry Cheat Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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