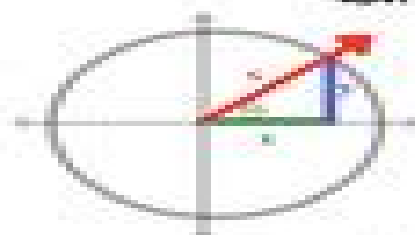


# TRIGONOMETRY CHEAT SHEET



## DEFINITION OF TRIGONOMETRIC RATIOS



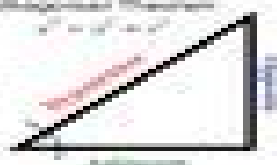
$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} \quad \cot \theta = \frac{\text{adjacent}}{\text{opposite}}$$

$$\sec \theta = \frac{\text{hypotenuse}}{\text{adjacent}} \quad \csc \theta = \frac{\text{hypotenuse}}{\text{opposite}}$$

$$\text{Pythagorean Theorem}$$

$$a^2 + b^2 = c^2$$



$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

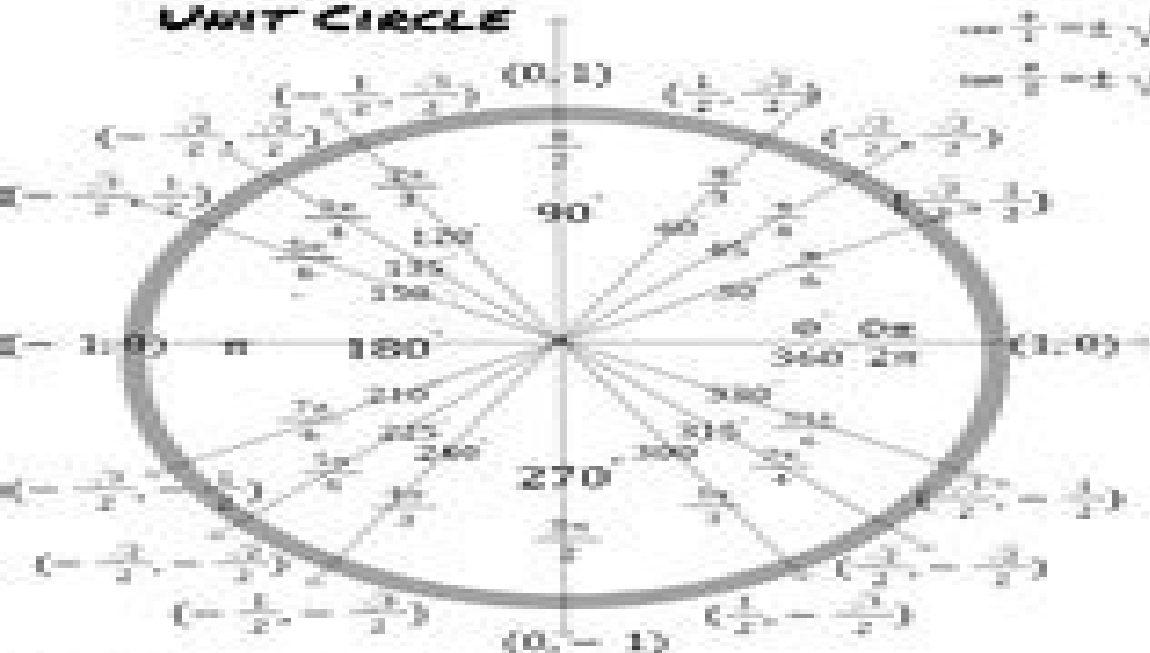
$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} \quad \cot \theta = \frac{\text{adjacent}}{\text{opposite}}$$

$$\sec \theta = \frac{\text{hypotenuse}}{\text{adjacent}} \quad \csc \theta = \frac{\text{hypotenuse}}{\text{opposite}}$$

## Reciprocal/Co-function Identities

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

## UNIT CIRCLE



## RECIPROCAL IDENTITIES

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

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

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

## EVEN/ODD IDENTITIES

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

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

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

## PYTHAGOREAN IDENTITIES

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

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

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

## CO-FUNCTION IDENTITIES

$$\sin \theta = \cos(90^\circ - \theta) \quad \cos \theta = \sin(90^\circ - \theta)$$

$$\tan \theta = \cot(90^\circ - \theta) \quad \cot \theta = \tan(90^\circ - \theta)$$

$$\sec \theta = \csc(90^\circ - \theta) \quad \csc \theta = \sec(90^\circ - \theta)$$

## DOUBLE/HALF ANGLE FORMULAS

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

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

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

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

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

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

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

$$\sin^2 \theta = \frac{1 - \cos 2\theta}{2}$$

$$\cos^2 \theta = \frac{1 + \cos 2\theta}{2}$$

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

## SUM-DIFFERENCE FORMULAS

$$\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$$

$$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B}$$

$$\cot(A \pm B) = \frac{\cot A \cot B \pm 1}{\cot B \mp \cot A}$$

## PRODUCT/SUM FORMULAS

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

$$\cos A \cos B = \frac{1}{2} [\cos(A - B) + \cos(A + B)]$$

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

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

## DEGREES TO RADIANS FORMULA

$$\text{Degrees} \times \frac{\pi}{180} = \text{Radians}$$

$$\text{Radians} \times \frac{180}{\pi} = \text{Degrees}$$

$$\text{Degrees} \times \frac{\pi}{180} = \text{Radians}$$

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$$\text{Radians} \times \frac{180}{\pi} = \text{Degrees}$$

# Essential Trigonometry Reference Sheet

**The Economist**



## **Essential Trigonometry Reference Sheet:**

**Essential Trigonometry** Tim Hill, 2013-10-16 This no nonsense guide provides students and self learners with a clear and readable study of trigonometry's most important ideas Tim Hill's distraction free approach combines decades of tutoring experience with the proven methods of his Russian math teachers The result learn in a few days what conventional schools stretch into months Teaches general principles that can be applied to a wide variety of problems Avoids the mindless and excessive routine computations that characterize conventional textbooks Treats trigonometry as a logically coherent discipline not as a disjointed collection of techniques Restores proofs to their proper place to remove doubt convey insight and encourage precise logical thinking Omits digressions excessive formalities and repetitive exercises Covers all the trigonometry needed to take a calculus course Includes problems with all solutions that extend your knowledge rather than merely reinforce it Contents 1 A Few Basics 2 Radian Measure 3 The Trig Functions 4 Trig Values for Special Angles 5 Graphs of Trig Functions 6 The Major Formulas 7 Inverse Trig Functions 8 The Law of Cosines and Sines 9 Solutions 10 Trig Cheat Sheet

**Essential Mathematics for Quantum Computing** Leonard S. Woody III, 2022-04-22 Demystify quantum computing by learning the math it is built on Key Features Build a solid mathematical foundation to get started with developing powerful quantum solutions Understand linear algebra calculus matrices complex numbers vector spaces and other concepts essential for quantum computing Learn the math needed to understand how quantum algorithms function Book Description Quantum computing is an exciting subject that offers hope to solve the world's most complex problems at a quicker pace It is being used quite widely in different spheres of technology including cybersecurity finance and many more but its concepts such as superposition are often misunderstood because engineers may not know the math to understand them This book will teach the requisite math concepts in an intuitive way and connect them to principles in quantum computing Starting with the most basic of concepts 2D vectors that are just line segments in space you'll move on to tackle matrix multiplication using an instinctive method Linearity is the major theme throughout the book and since quantum mechanics is a linear theory you'll see how they go hand in hand As you advance you'll understand intrinsically what a vector is and how to transform vectors with matrices and operators You'll also see how complex numbers make their voices heard and understand the probability behind it all It's all here in writing you can understand This is not a stuffy math book with definitions axioms theorems and so on This book meets you where you're at and guides you to where you need to be for quantum computing Already know some of this stuff No problem The book is componentized so you can learn just the parts you want And with tons of exercises and their answers you'll get all the practice you need What you will learn Operate on vectors qubits with matrices gates Define linear combinations and linear independence Understand vector spaces and their basis sets Rotate reflect and project vectors with matrices Realize the connection between complex numbers and the Bloch sphere Determine whether a matrix is invertible and find its eigenvalues Probabilistically determine the measurement of a

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**Pre-Calculus For Dummies** Krystle Rose Forseth,Christopher Burger,Michelle Rose Gilman,2008-04-07 Offers an introduction to the principles of pre calculus covering such topics as functions law of sines and cosines identities sequences series and binomials

*The Economist Numbers Guide (6th Ed)* The Economist,2014-01-28 The Economist Numbers Guide is invaluable for everyone who has to work with numbers which in today s commercially focused world means most managers In addition to general advice on basic numeracy the guide points out common errors and explains the recognized techniques for solving financial problems analyzing information of any kind forecasting and effective decision making Over 100 charts graphs tables and feature boxes highlight key points and great emphasis is put on the all important aspect of how you present and communicate numerical information effectively and honestly At the back of the book is an extensive A Z dictionary of terms covering everything from amortization to zero sum game Whatever your business whatever your management role for anyone who needs a good head for figures The Economist Numbers Guide will help you achieve your goals

Learn Trigonometry the Russian Way (No Fluff Guide) Tim Hill,2013-04-01 This no nonsense guide provides students and self learners with a clear and readable study of trigonometry s most important ideas Tim Hill s distraction free approach combines decades of tutoring experience with the methods of his old school Russian math teachers The result learn in a few days what conventional schools stretch into months Teaches general principles that can be applied to a wide variety of problems Avoids the mindless and excessive routine computations that characterize conventional textbooks Treats trigonometry as a logically coherent discipline not as a disjointed collection of techniques Restores proofs to their proper place to remove doubt convey insight and encourage precise logical thinking Omits digressions excessive formalities and repetitive exercises Covers all the trigonometry needed to take a calculus course Includes detailed solutions to all problems Contents 1 To the Student 2 A Few Prereqs 3 Radian Measure 4 The Trig Functions 5 Trig Values for Special Angles 6 Graphs of Trig Functions 7 The Major Formulas 8 Inverse Trig Functions 9 The Law of Cosines and Sines 10 Problems Solutions 11 Trig Cheat Sheet About the AuthorTim Hill is a data miner and private

math tutor based in Las Vegas Nevada When he s not crunching numbers Tim plays poker hikes canyons and avoids malls  
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