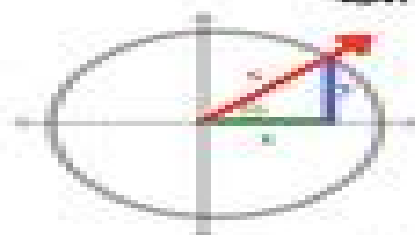


# TRIGONOMETRY CHEAT SHEET



## DEFINITION OF TRIGONOMETRIC RATIOS



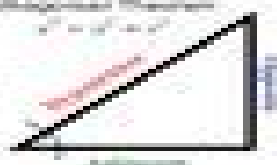
$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} \quad \cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

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

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

$$\text{Pythagorean Theorem}$$

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



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

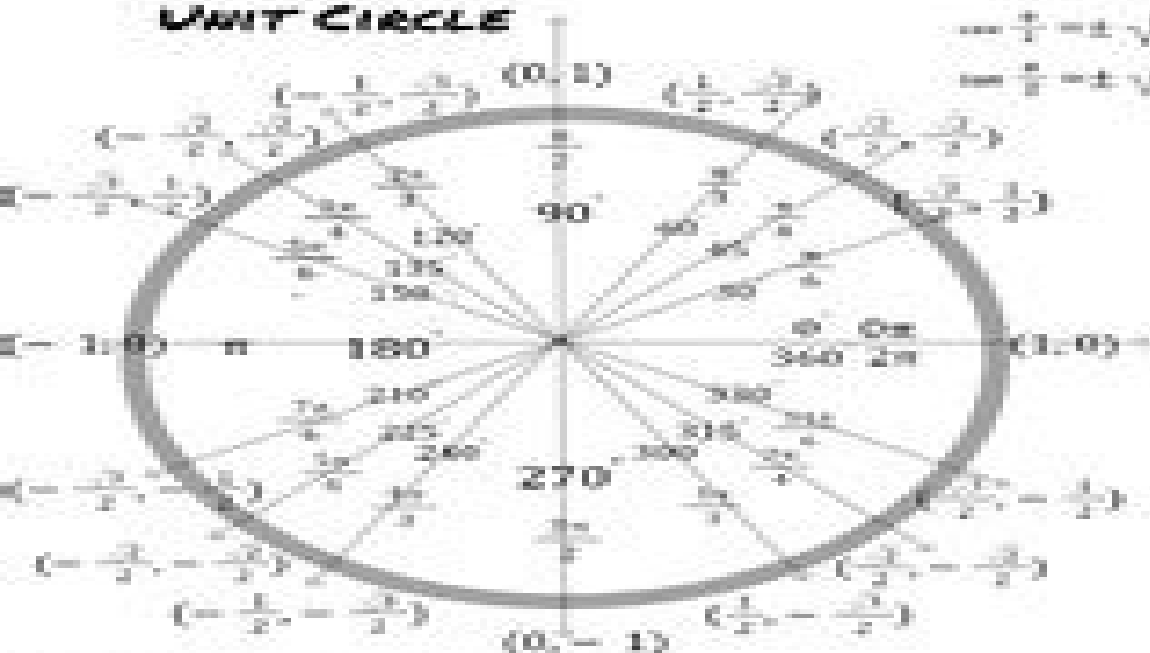
$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} \quad \cot \theta = \frac{\text{adjacent}}{\text{opposite}}$$

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

## Reciprocal/Co-function Identities

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

## UNIT CIRCLE



## RECIPROCAL IDENTITIES

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

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

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

## 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

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

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

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

## 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

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

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

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

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

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

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

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

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

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

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

## SUM-DIFFERENCE FORMULAS

$$\sin(\theta \pm \phi) = \sin \theta \cos \phi \pm \cos \theta \sin \phi$$

$$\cos(\theta \pm \phi) = \cos \theta \cos \phi \mp \sin \theta \sin \phi$$

$$\tan(\theta \pm \phi) = \frac{\tan \theta \pm \tan \phi}{1 \mp \tan \theta \tan \phi}$$

$$\cot(\theta \pm \phi) = \frac{\cot \theta \cot \phi \pm 1}{\cot \phi \mp \cot \theta}$$

## PRODUCT/SUM FORMULAS

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

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

$$\cos \theta \cos \phi = \frac{1}{2} [\cos(\theta - \phi) + \cos(\theta + \phi)]$$

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

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

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

$$\cos \theta + \cos \phi = 2 \cos \left( \frac{\theta + \phi}{2} \right) \cos \left( \frac{\theta - \phi}{2} \right)$$

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

## DEGREES TO RADIANS FORMULA

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

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

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

# Essential Trigonometry Reference Sheet

**Faithe Wempen**



## **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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**Essentials of Mathematics Applicable to AC and DC Circuits** United States. Bureau of Naval Personnel,1965

Mechanical Engineering Essentials Reference Guide Harold A. Rothbart,Tyler Gregory Hicks,1988 **APhysics**

Dan Fullerton,2011-04-28 APlusPhysics Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire New York State Regents Physics curriculum preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam Topics covered include pre requisite math and trigonometry kinematics forces Newton s Laws of Motion circular motion and gravity impulse and momentum work energy and power electrostatics electric circuits magnetism waves optics and modern physics Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations this book is integrated with the APlusPhysics com website which includes online question and answer forums videos animations and supplemental problems to help you master Regents Physics essentials The best physics books are the ones kids will actually read Advance Praise for APlusPhysics Regents Physics Essentials Very well written simple clear engaging and accessible You hit a grand slam with this review book Anthony NY Regents Physics Teacher Does a great job giving students what they need to know The value provided is amazing Tom NY Regents Physics Teacher This was tremendous preparation for my physics test I love the detailed problem solutions Jenny NY Regents Physics Student Regents Physics Essentials has all the information you could ever need and is much easier to understand than many other textbooks it is an excellent review tool and is truly written for students Cat NY Regents Physics Student *Design Engineer's Reference Guide* Keith L. Richards,2014-03-11 Author Keith L Richards believes that design engineers spend only a small fraction of time actually designing and drawing and the remainder of their time finding relevant design information for a specific method or problem He draws on his own experience as a mechanical engineering designer to offer assistance to other practicing and student engineers facing the same struggle Design Engineer s Reference Guide Mathematics Mechanics and Thermodynamics provides engineers with a roadmap for navigating through common situations or dilemmas This book starts off by introducing reference information on the coverage of differential and integral calculus Laplace s transforms determinants and matrices It provides a numerical analysis on numerical methods of integration Newton Raphson s methods the Jacobi iterative method and the Gauss Seidel method It also contains reference information as well as examples and illustrations that reinforce the topics of most chapter subjects A companion to the Design Engineer s Handbook and Design Engineer s Case Studies and Examples this textbook covers a range of basic engineering concepts and common applications including Mathematics Numerical analysis Statics and kinematics

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*Pre-Calculus Workbook For Dummies?* Michelle Rose Gilman, Christopher Burger, Karina Neal, 2009-06-24 Get the confidence and the math skills you need to get started with calculus Are you preparing for calculus This easy to follow hands on workbook helps you master basic pre calculus concepts and practice the types of problems you'll encounter in your coursework You get valuable exercises problem solving shortcuts plenty of workspace and step by step solutions to every problem You'll also memorize the most frequently used equations see how to avoid common mistakes understand tricky trig proofs and much more 100s of Problems Detailed fully worked out solutions to problems The inside scoop on quadratic equations graphing functions polynomials and more A wealth of tips and tricks for solving basic calculus problems

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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

Pre-Calculus For Dummies Krystle Rose Forseth, Christopher Burger, Michelle Rose Gilman, Deborah J. Rumsey, 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

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## **Table of Contents Essential Trigonometry Reference Sheet**

1. Understanding the eBook Essential Trigonometry Reference Sheet
  - The Rise of Digital Reading Essential Trigonometry Reference Sheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Essential Trigonometry Reference 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 Essential Trigonometry Reference Sheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Essential Trigonometry Reference Sheet
  - Personalized Recommendations
  - Essential Trigonometry Reference Sheet User Reviews and Ratings
  - Essential Trigonometry Reference Sheet and Bestseller Lists
5. Accessing Essential Trigonometry Reference Sheet Free and Paid eBooks
  - Essential Trigonometry Reference Sheet Public Domain eBooks
  - Essential Trigonometry Reference Sheet eBook Subscription Services
  - Essential Trigonometry Reference Sheet Budget-Friendly Options

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