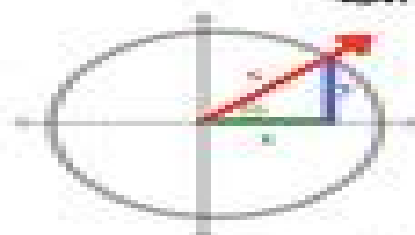


TRIGONOMETRY CHEAT SHEET



DEFINITION OF TRIGONOMETRIC RATIOS



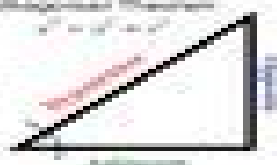
$$\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}} = \frac{y}{r}$$

$$\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}} = \frac{x}{r}$$

$$\tan \theta = \frac{\text{opposite}}{\text{adjacent}} = \frac{y}{x}$$

$$\text{Pythagorean Theorem}$$

$$r^2 = x^2 + y^2$$



$$\sec \theta = \frac{\text{hypotenuse}}{\text{adjacent}} = \frac{r}{x}$$

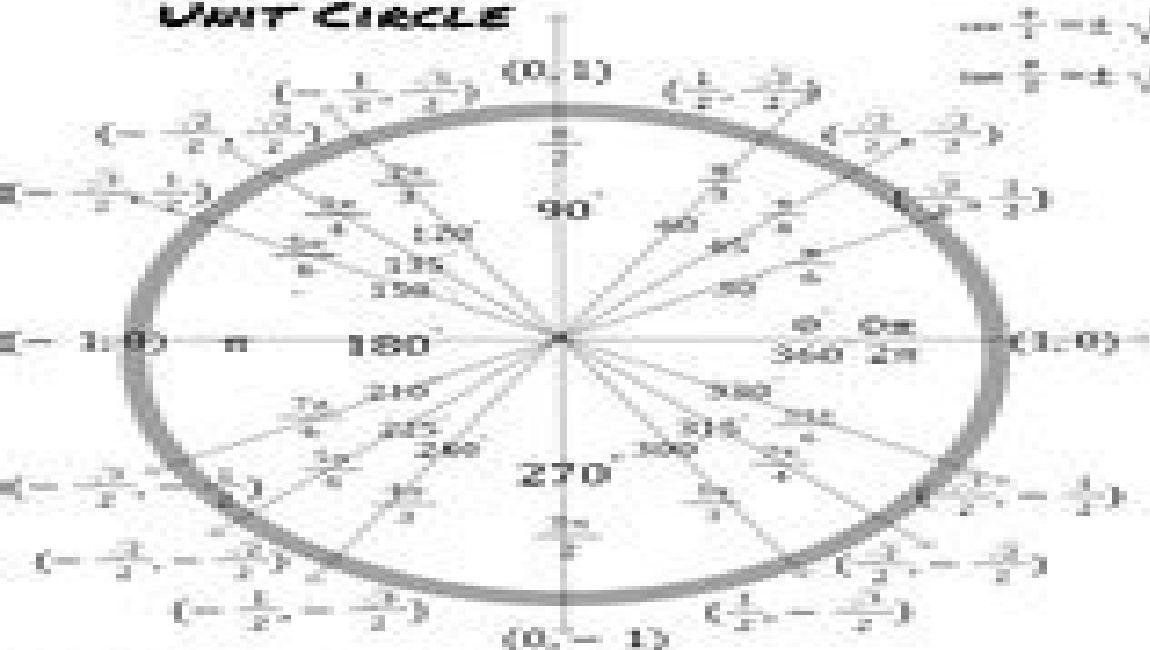
$$\csc \theta = \frac{\text{hypotenuse}}{\text{opposite}} = \frac{r}{y}$$

$$\cot \theta = \frac{\text{adjacent}}{\text{opposite}} = \frac{x}{y}$$

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

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

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

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

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

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

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

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

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

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

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

SUM-DIFFERENCE FORMULAS

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

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

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

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

PRODUCT/SUM FORMULAS

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

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

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

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

$$\sin A + \sin B = 2 \sin \left(\frac{A+B}{2} \right) \cos \left(\frac{A-B}{2} \right)$$

$$\sin A - \sin B = 2 \cos \left(\frac{A+B}{2} \right) \sin \left(\frac{A-B}{2} \right)$$

$$\cos A + \cos B = 2 \cos \left(\frac{A+B}{2} \right) \cos \left(\frac{A-B}{2} \right)$$

$$\cos A - \cos B = -2 \sin \left(\frac{A+B}{2} \right) \sin \left(\frac{A-B}{2} \right)$$

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

JG Myers



Essential Trigonometry Reference Sheet:

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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

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 Mechanical vibrations Control system modeling Basic thermodynamics Fluid mechanics and linkages An entry level text for students needing to understand the underlying principles before progressing to a more advanced level Design Engineer s Reference Guide Mathematics Mechanics and Thermodynamics is also a basic reference for mechanical manufacturing and design engineers

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