

TRIGONOMETRY

Right triangle definition

For this definition we assume that

$$0 < \theta < \frac{\pi}{2} \text{ or } 0^\circ < \theta < 90^\circ.$$



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

Double Angle Formulas Half Angle Formulas

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

Product to Sum Formulas

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

Sum and Difference Formulas

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

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

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

Pythagorean Identities

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

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

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

Inverse Trig Functions

$$y = \sin^{-1} x \text{ is equivalent to } x = \sin y$$

$$y = \cos^{-1} x \text{ is equivalent to } x = \cos y$$

$$y = \tan^{-1} x \text{ is equivalent to } x = \tan y$$

Law of Sines

$$\frac{\sin \alpha}{a} = \frac{\sin \beta}{b} = \frac{\sin \gamma}{c}$$

Law of Cosines

$$a^2 = b^2 + c^2 - 2bc \cos \alpha$$

$$b^2 = a^2 + c^2 - 2ac \cos \beta$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma$$

ALGEBRA

Arithmetic Operations

$$ab + ac = a(b + c) \qquad a\left(\frac{b}{c}\right) = \frac{ab}{c}$$

$$\left(\frac{a}{b}\right) \cdot \frac{a}{bc} = \frac{a}{b} \qquad \left(\frac{a}{b}\right) \cdot \frac{ac}{b} = \frac{ac}{b}$$

$$\frac{a}{b} + \frac{c}{d} = \frac{ad + bc}{bd} \qquad \frac{a}{b} - \frac{c}{d} = \frac{ad - bc}{bd}$$

$$\frac{a-b}{c-d} = \frac{b-a}{d-c} \qquad \frac{a+b}{c} = \frac{a}{c} + \frac{b}{c}$$

$$\frac{ab + ac}{a} = b + c, \quad a \neq 0 \qquad \left(\frac{a}{b}\right) \cdot \left(\frac{c}{d}\right) = \frac{ac}{bd}$$

The Functions Of Algebra And Trigonometry

Cynthia Y. Young



The Functions Of Algebra And Trigonometry:

The Functions of Algebra and Trigonometry Kenneth P. Bogart, 1977 *The Functions of Algebra and Trigonometry* Kenneth P. Bogart, 1977 *Algebra and Trigonometry* Harley Flanders, Justin J. Price, 2014-05-10 Algebra and Trigonometry presents the essentials of algebra and trigonometry with some applications The emphasis is on practical skills problem solving and computational techniques Topics covered range from equations and inequalities to functions and graphs polynomial and rational functions and exponentials and logarithms Trigonometric functions and complex numbers are also considered Comprised of 11 chapters this book begins with a discussion on the fundamentals of algebra each topic explained illustrated and accompanied by an ample set of exercises The proper use of algebraic notation and practical manipulative skills such as factoring using exponents and radicals and simplifying rational expressions is highlighted along with the most common mistakes in algebra The reader is then introduced to the solution of linear quadratic and other types of equations and systems of equations as well as the solution of inequalities Subsequent chapters deal with the most basic functions polynomial rational exponential logarithm and trigonometric Trigonometry and the inverse trigonometric functions and identities are also presented The book concludes with a review of progressions permutations combinations and the binomial theorem This monograph will be a useful resource for undergraduate students of mathematics and algebra **College Algebra and Trigonometry** Frederic Howell Miller, 1945 **Introduction to Algebra and Trigonometry** Bernard Kolman, Arnold Shapiro, 2014-05-10 Introduction to Algebra and Trigonometry provides a complete and self contained presentation of the fundamentals of algebra and trigonometry This book describes an axiomatic development of the foundations of algebra defining complex numbers that are used to find the roots of any quadratic equation Advanced concepts involving complex numbers are also elaborated including the roots of polynomials functions and function notation and computations with logarithms This text also discusses trigonometry from a functional standpoint The angles triangles and applications involving triangles are likewise treated Other topics include analytic geometry conic sections and use of a coordinate system to prove theorems from plane and matrix operations and inverses This publication is valuable to students aiming to gain more knowledge of the fundamentals of mathematics 2024-25 NCERT Class-XI and XII Mathematics Trigonometry Solved Papers Vol.04 YCT Expert Team , 2024 25 NCERT Class XI and XII Mathematics Trigonometry Solved Papers Vol 04 320 695 E This book contains 36020 previous year objective questions Plane and Spherical Trigonometry Elmer Adelbert Lyman, Edwin Charles Goddard, 1900 **Algebra and Trigonometry** Cynthia Y. Young, 2021-08-31 Cynthia Young s Algebra and Trigonometry Fifth Edition allows students to take the guesswork out of studying by providing them with an easy to read and clear roadmap what to do how to do it and whether they did it right With this revision Cynthia Young revised the text with a focus on the most difficult topics in Trigonometry with a goal to bring more clarity to those learning objectives Algebra and Trigonometry Fifth Edition is written in a voice that speaks to students and mirrors how

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