

**TRIGONOMETRY**

**Right triangle definition**

For this definition we assume that

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



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

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

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

**Double Angle Formulas    Half Angle Formulas**

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

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

$$\tan(2\theta) = \frac{2 \tan \theta}{1 - \tan^2 \theta} \quad \tan^2 \theta = \frac{1 - \cos(2\theta)}{1 + \cos(2\theta)}$$

**Product to Sum Formulas**

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

$$\cos \alpha \cos \beta = \frac{1}{2} [\cos(\alpha - \beta) + \cos(\alpha + \beta)]$$

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

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

**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**

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

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

$y = \tan^{-1} x$  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**

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

$$\left(\frac{a}{b}\right) \cdot \frac{a}{bc} = \frac{a^2}{bc} \quad \frac{a}{\left(\frac{b}{c}\right)} = \frac{ac}{b}$$

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

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

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

The information for this handout was compiled from the following sources:

Paul's Online Math Notes. (n.d.). Retrieved from [http://tutorial.math.lamar.edu/cheat\\_table.aspx](http://tutorial.math.lamar.edu/cheat_table.aspx)

# Algebra And Trigonometry A Functions Approach

**KJ Lindholm-Leary**



## **Algebra And Trigonometry A Functions Approach:**

Algebra and Trigonometry Mervin Laverne Keedy, Marvin L. Bittinger, 1975      Precalculus Peter Evanovich, Martin Kerner, 1982      **Functional Approach to Algebra and Trigonometry with Vectors and Analytical Geometry** Mustafa A. Munem, James P. Yizze, 1968      **Functional Approach to Precalculus** Mustafa A. Munem, James P. Yizze, 1974      A Graphical Approach to Algebra and Trigonometry John Hornsby, Margaret L. Lial, Gary K. Rockswold, 2010-01-27 This edition features the exact same content as the traditional text in a convenient three hole punched loose leaf version Books la Carte also offer a great value this format costs significantly less than a new textbook A Graphical Approach to Algebra and Trigonometry illustrates how the graph of a function can be used to support the solutions of equations and inequalities involving the function Beginning with linear functions in Chapter 1 the text uses a four part process to analyze each type of function starting first with the graph of the function then the equation the associated inequality of that equation and ending with applications The text covers all of the topics typically caught in a college algebra course but with an organization that fosters students understanding of the interrelationships among graphs equations and inequalities With the Fifth Edition the text continues to evolve as it addresses the changing needs of today s students Included are additional components to build skills address critical thinking solve applications and apply technology to support traditional algebraic solutions while maintaining its unique table of contents and functions based approach A Graphical Approach to Algebra and Trigonometry continues to incorporate an open design with helpful features and careful explanations of topics      **Subject Guide to Books in Print** ,1983      *A Graphical Approach to College Algebra and Trigonometry* E. John Hornsby, John Hornsby, Margaret L. Lial, 1999 This book intended for a college algebra and trigonometry course is the culmination of many years of teaching experience with the graphing calculator In it the authors treat the standard topics of college algebra and trigonometry by solving analytically confirming graphically and motivating through applications Throughout the first five chapters the authors present the various classes of functions studied in a standard college algebra and trigonometry text Chapter One introduces functions and relations using the linear function as the basis for the presentation In this chapter the authors introduce the following approach which is used throughout the next four chapters after introducing a class of functions the nature of its graph is examined then the analytic solution of equations based on that function is discussed Students are then shown how to provide graphical support for solutions using a graphing calculator Having established these two methods of solving equations the authors move on to the analytic methods of solving the associated inequalities Students then learn how the analytic solutions of these inequalities can also be supported graphically under consideration the authors use analytic and graphical methods to solve interesting applications involving that function By consistently using this approach with all the different classes of functions students become aware that the authors are always following the same general procedure and just applying that procedure to a new kind of function Throughout the text the authors emphasize the

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