

Using Trigonometric Identities **18.57**

The following are collections of identities that are true for all values of the variables in the identities. Functions are defined.

Trigonometric Identities

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

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

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

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

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

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

Quotient Identities

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

Pythagorean Identities **These are known to be properties of Pythagoras and identity to follow:** **Remember these identities:**

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

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

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

These identities are used in evaluating trigonometric functions, simplifying trigonometric expressions, and solving trigonometric equations.

Evaluating Trigonometric Functions

Ex. Find a convenient angle that terminates in Quadrant II and use it to find $\sin \theta$ and $\cos \theta$.

Sol. Assume that Pythagorean identity to solve for $\sin \theta$:

$$\sin^2 \theta + \cos^2 \theta = 1 \Rightarrow \sin^2 \theta + \left(\frac{1}{2}\right)^2 = 1$$

$$\sin^2 \theta = 1 - \left(\frac{1}{2}\right)^2 = \frac{3}{4}$$

$$\sin \theta = \pm \sqrt{\frac{3}{4}} = \pm \frac{\sqrt{3}}{2} \quad \text{Since } \theta \text{ is in } \text{Quadrant II, } \sin \theta = \frac{\sqrt{3}}{2}$$

Ex. There are two answers to this equation. Explain how you determined the negative solution. **Remember: angles in Quadrant II have positive sine and negative cosine.**

Ex. Solve a equation identity to find θ :

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

Using Trigonometric Identities Key Unit 5 Lesson 2

Raymond Rozen



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Trigonometry Cynthia Y. Young, 2011-11-15 Eureka Math Algebra II Study Guide Great Minds, 2016-08-15 The team of teachers and mathematicians who created Eureka Math believe that it is not enough for students to know the process for solving a problem they need to know why that process works That is why students who learn math with Eureka can solve real world problems even those they have never encountered before The Study Guides are a companion to the Eureka Math program whether you use it online or in print The guides collect the key components of the curriculum for each grade in a single volume They also unpack the standards in detail so that anyone even non Eureka users can benefit The guides are particularly helpful for teachers or trainers seeking to undertake or lead a meaningful study of the grade level content in a way that highlights the coherence between modules and topics We're here to make sure you succeed with an ever growing library of resources Take advantage of the full set of Study Guides available for each grade PK 12 or materials at eureka math org such as free implementation and pacing guides material lists parent resources and more *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 **Trigonometry** Marvin L. Bittinger, 1998

Mastering Frequency Domain Techniques for the Stability Analysis of LTI Time Delay Systems Rifat Sipahi, 2019-05-21 In many dynamical systems time delays arise because of the time it takes to measure system states perceive and evaluate events formulate decisions and act on those decisions The presence of delays may lead to undesirable outcomes without an engineered design the dynamics may underperform oscillate and even become unstable How to study the stability of dynamical systems influenced by time delays is a fundamental question Related issues include how much time delay the system can withstand without becoming unstable and how to change system parameters to render improved dynamic characteristics utilize or tune the delay itself to improve dynamical behavior and assess the stability and speed of

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Mathematics-I Vikrant Sharma,2025-08-06 Mathematics I BCA SEMESTER I

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Algebra and Trigonometry Michael Sullivan, 1996 This text uses the graphing utility to enhance the study of mathematics Many of the problems are solved using both algebra and a graphing utility and the text illustrates the advantages and benefits of each approach Technology is used to solve problems when no algebraic solution is available

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