

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 $\cos \theta$:

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

Using Trigonometric Identities Unit 05 Answer Key

Katrin Zwirgmaier



Using Trigonometric Identities Unit 05 Answer Key:

Trigonometry Cynthia Y. Young, 2011-11-15 **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 response of the dynamics Mastering Frequency Domain Techniques for the Stability Analysis of LTI Time Delay Systems addresses these questions for linear time invariant LTI systems with an eigenvalue based approach built upon frequency domain techniques Readers will find key results from the literature including all subtopics for those interested in deeper exploration The book presents step by step demonstrations of all implementations including those that require special care in mathematics and numerical implementation from the simpler more intuitive ones in the introductory chapters to the more complex ones found in the later chapters Maple and MATLAB code is available from the author's website This multipurpose book is intended for graduate students instructors and researchers working in control engineering robotics mechatronics network control systems human in the loop systems human machine systems remote control and tele operation transportation systems energy systems and process control as well as for those working in applied mathematics systems biology and physics It can be used as a primary text in courses on stability and control of time delay systems and as a supplementary text in courses in the above listed domains *Eureka Math Algebra II Study Guide* Great Minds, 2016-08-15 The team of teachers and mathematicians who created Eureka Math believe that it's not enough for students to know the process for solving a problem they need to know why that process works That's 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 **Pre-Calculus Workbook For Dummies** Yang Kuang, Michelle Rose Gilman, 2011-03-16 Get the confidence and math skills you need to get started with calculus Are you preparing for calculus

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