

5-2 Study Guide and Intervention

Verifying Trigonometric Identities

Verify Trigonometric Identities To *verify an identity* means to *prove* that both sides of the equation are equal for all values of the variable for which both sides are defined.

Example: Verify that $\frac{\sec^2 x - 1}{\sec^2 x} = \sin^2 x$.

The left-hand side of this identity is more complicated, so start with that expression first.

$$\begin{aligned}\frac{\sec^2 x - 1}{\sec^2 x} &= \frac{(\tan^2 x + 1) - 1}{\sec^2 x} && \text{Pythagorean Identity} \\ &= \frac{\tan^2 x}{\sec^2 x} && \text{Simplify.} \\ &= \frac{\left(\frac{\sin^2 x}{\cos^2 x}\right)}{\frac{1}{\cos^2 x}} && \text{Quotient Identity and Reciprocal Identity} \\ &= \frac{\sin^2 x}{\cos^2 x} \cdot \cos^2 x && \text{Simplify.} \\ &= \sin^2 x \checkmark && \text{Multiply.}\end{aligned}$$

Notice that the verification ends with the expression on the other side of the identity.

Exercises

Verify each identity.

1. $\sec \theta - \cos \theta = \sin \theta \tan \theta$

2. $\sec \theta = \sin \theta(\tan \theta + \cot \theta)$

3. $\tan \theta \csc \theta \cos \theta = 1$

4. $\frac{\csc^2 \theta - \cot^2 \theta}{1 - \sin^2 \theta} = \sec^2 \theta$

Study Guide Intervention Verifying Trigonometric Identities

William R. Krickenberger



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 Trigonometric Identities Masroor Mohajerani, 2020-10-12 Verifying Trigonometric identities is a useful technique when we want to convert a trigonometric expression to another form algebraically You can use these techniques to simplify trigonometric expressions and to solve trigonometric equations **Trigonometry** Larson, 2000-09 **Introduction to Trigonometry** A. I. T. Outoulboun Essaid, 2020-07-19 ABOUT THE BOOK This textbook is different than other trigonometry books in that the reader is expected to do more than read the book and is expected to study the material in the book by working out examples rather than just reading about them So this book is not just about mathematical content but is also

about the process of learning and doing mathematics That is this book is designed not to be just casually read but rather to be engaged Since this can be a difficult task there are several features of the book designed to assist students in this endeavor In particular most sections of the book start with a beginning activity that review prior mathematical work that is necessary for the new section or introduce new concepts and definitions that will be used later in that section Each section also contains several progress checks that are short exercises or activities designed to help readers determine if they are understanding the material This mathematics work meets the objectives of the program for scientific classes in the final year includes 1 Research activities 2 A summary of the course 3 Exercises pages of various shapes to help everyone work at their own pace

TABLE OF CONTENTS Angle measurement units The Radian Oriented angle Introducing Sine Cosine and Tangent Trigonometric Identities and Equations Trigonometric Equations and Inequalities Exercises **Practice Makes Perfect Trigonometry** Carolyn Wheater, 2011-11-11 Don't be tripped up by trigonometry Master this math with practice practice practice Practice Makes Perfect Trigonometry is a comprehensive guide and workbook that covers all the basics of trigonometry that you need to understand this subject Each chapter focuses on one major topic with thorough explanations and many illustrative examples so you can learn at your own pace and really absorb the information You get to apply your knowledge and practice what you've learned through a variety of exercises with an answer key for instant feedback Offering a winning solution for getting a handle on math right away Practice Makes Perfect Trigonometry is your ultimate resource for building a solid understanding of trigonometry fundamentals

A Guided Inquiry-Based Learning Module in Trigonometric Identities Ryan Bernido, 2020-05-05 This module provides lesson exemplars and learning materials in understanding the Trigonometric Identities The approach is Inquiry Based Learning which uses scaffold activities and guide questions to let learners learn on their own with minimal guidance from the teacher This module has two parts First part is for lesson exemplars which can be used by teachers as guide to deliver lesson on Trigonometric Identities using Guided Inquiry Based Learning while part 2 is for learning materials which teachers can use as materials for the learners

Trigonometric Identities Central Metropolitan College of TAFE (W.A.), 1997 *A Comparative Study of Proving Trigonometric Identities Using a Contemporary Approach and a Contemporary Approach Preceded with a Unit of Symbolic Logic* Theodore P. Gordish, 1973 *Algebra and Trigonometry a Graphing Approach and Student Study Guide and Tech Guide, Second Edition* Ron Larson, 1997

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