

## 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

**Roland E. Larson**



## **Study Guide Intervention Verifying Trigonometric Identities:**

**Glencoe Algebra I**, 2003      *Study and Solutions Guide for Trigonometry* Roland E. Larson, Dianna L. Zook, 1993

Study Guide : Trigonometry William R. Krickenberger, 1956

**Trigonometry, a Graphing Approach Study and**

**Solutions Guide** Roland E. Larson, 1995

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**Homework Helpers: Trigonometry** Denise Szecsei, 2006-11-01 The essential help you need when your trigonometry textbook just isn't making the grade Trigonometry includes concepts that have both a geometric and an algebraic component Homework Helpers Trigonometry covers all of the topics in a typical trigonometry class including The unit circle Trigonometric functions Inverse trigonometric functions Identities Graphical analysis Applications This book also contains a review of the algebraic and geometric ideas that are the foundation of trigonometry Let a longtime teacher with a PhD in mathematics give you the boost you need to pass the class prepare for an AP course or just strengthen your skills

**Trigonometry** Larson, 2000-09

**Introduction to Trigonometry** A. I. T. Outoulboun Essaid, 2020-07-19

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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

*Practice Makes Perfect Trigonometry* Carolyn Wheater, 2011-11-11 Sales Handle A no nonsense practical guide to trigonometry providing concise summaries clear model examples and plenty of practice making this workbook the ideal complement to class study or self study preparation for exams or a brush up on rusty skills About the Book Established as a successful practical workbook series with over 30 titles

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