

Section 5.2 Verifying Trigonometric Identities

Objective: In this lesson you learned how to verify trigonometric identities.

Course Number

Instructor

Date

I. Introduction (Page 450)

The key to verifying identities is . . .

What you should learn

How to plan a strategy for verifying trigonometric identities

An identity is . . .

Complete the following list of guidelines for verifying trigonometric identities:

1)

2)

3)

4)

5)

II. Verifying Trigonometric Identities (Pages 451–454)

Example 1: Describe a strategy for verifying the identity $\sin q \tan q + \cos q = \sec q$. Then verify the identity.

What you should learn

How to verify trigonometric identities

Example 2: Describe a strategy for verifying the identity $\sin^2 x(\csc x - 1)(\csc x + 1) = 1 - \sin^2 x$. Then verify the identity.

Example 3: Verify the identity $\cot^5 a = \cot^3 a \csc^2 a - \cot^3 a$.

Additional notes

Homework Assignment

Page(s)

Exercises