

Section 5.2 Verifying Trigonometric Identities

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

Course Number

Instructor

Date

I. Introduction (Page 360)

The key to both verifying identities and solving equations is . . .

What you should learn

How to understand the difference between conditional equations and identities

An identity is . . .

II. Verifying Trigonometric Identities (Pages 360–364)

Complete the following list of guidelines for verifying trigonometric identities:

What you should learn

How to verify trigonometric identities

1)

2)

3)

4)

5)

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

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 $\cot^5 \alpha = \cot^3 \alpha \csc^2 \alpha - \cot^3 \alpha$.

Additional notes

Homework Assignment

Page(s)

Exercises