Section 7.2 Verifying Trigonometric Identities

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

I. Introduction (Page 550)

The key to verifying identities is...

An identity is...

Complete the following list of guidelines for verifying trigonometric identities:

1)

2)

3)

4)

5)

II. Verifying Trigonometric Identities (Pages 551–554)

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