

In Exercises 21–30, verify the identity.

$$21. \sin^{3/2} x \cos x - \sin^{1/2} x \cos x = \cos^2 x \sqrt{\sin x}$$

$$22. \sec^2 x (\sec x \tan x) - \sec^2 x (\sec x \tan x) = \sec^3 x \tan^3 x$$

$$23. \cos\left(\frac{\pi}{2} - x\right) \csc x = \sec x$$

$$24. \frac{\sec[(\pi/2) - x]}{\tan[(\pi/2) - x]} = \sec x$$

$$25. \frac{\csc(-x)}{\sec(-x)} = -\cot x$$

$$26. (1 + \sin y)(1 + \sin(-y)) = \cos^2 y$$

$$27. \frac{\cos(-\theta)}{1 + \sin(-\theta)} = \sec \theta + \tan \theta$$

$$28. \frac{1 + \csc(-\theta)}{\cos(-\theta) + \cot(-\theta)} = \sec \theta$$

$$29. \frac{\sin x \cos y + \cos x \sin y}{\cos x \cos y - \sin x \sin y} = \frac{\tan x + \tan y}{1 - \tan x \tan y}$$

$$30. \frac{\tan x + \tan y}{1 - \tan x \tan y} = \frac{\cot x + \cot y}{\cot x \cot y - 1}$$

In Exercises 31–38, verify the identity algebraically. Use the *table* feature of a graphing utility to check your result numerically.

$$31. \frac{\cos x - \cos y}{\sin x + \sin y} + \frac{\sin x - \sin y}{\cos x + \cos y} = 0$$

$$32. \frac{\tan x + \cot y}{\tan x \cot y} = \tan y + \cot x$$

$$33. \sqrt{\frac{1 + \sin \theta}{1 - \sin \theta}} = \frac{1 + \sin \theta}{|\cos \theta|}$$

$$34. \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} = \frac{1 - \cos \theta}{|\sin \theta|}$$

$$35. \sin^2\left(\frac{\pi}{2} - x\right) + \sin^2 x = 1$$

$$36. \sec^2 y - \cot^2\left(\frac{\pi}{2} - y\right) = 1$$

$$37. \sin x \csc\left(\frac{\pi}{2} - x\right) = \tan x$$

$$38. \sec\left(\frac{\pi}{2} - x\right) - 1 = \cot^2 x$$

In Exercises 39–50, verify the identity algebraically. Use a graphing utility to check your result graphically.

$$39. 2 \sec^2 x - 2 \sec^2 x \sin^2 x - \sin^2 x - \cos^2 x = 1$$

$$40. \csc x (\csc x - \sin x) + \frac{\sin x - \cos x}{\sin x} + \cot x = \csc^2 x$$

$$41. \frac{\cot x \tan x}{\sin x} = \csc x$$

$$42. \frac{1 + \csc \theta}{\sec \theta} - \cot \theta = \cos \theta$$

$$43. \csc^2 x - 2 \csc^2 x + 1 = \cot^2 x$$

$$44. \sin x (1 - 2 \cos^2 x + \cos^4 x) = \sin^3 x$$

$$45. \sec^2 \theta - \tan^2 \theta = 1 + 2 \tan^2 \theta$$

$$46. \csc^2 \theta - \cot^2 \theta = 2 \csc^2 \theta - 1$$

$$47. \frac{\sin \beta}{1 - \cos \beta} = \frac{1 + \cos \beta}{\sin \beta}$$

$$48. \frac{\cot \alpha}{\csc \alpha - 1} = \frac{\csc \alpha + 1}{\cot \alpha}$$

$$49. \frac{\tan^2 \alpha - 1}{\tan \alpha - 1} = \tan^2 \alpha + \tan \alpha + 1$$

$$50. \frac{\sin^2 \beta + \cos^2 \beta}{\sin \beta + \cos \beta} = 1 - \sin \beta \cos \beta$$

**Conjecture** In Exercises 51–54, use a graphing utility to graph the trigonometric function. Use the graph to make a conjecture about a simplification of the expression. Verify the resulting identity algebraically.

$$51. y = \frac{1}{\cot x + 1} + \frac{1}{\tan x + 1}$$

$$52. y = \frac{\cos x}{1 - \tan x} + \frac{\sin x \cos x}{\sin x - \cos x}$$

$$53. y = \frac{1}{\sin x} - \frac{\cos^2 x}{\sin x}$$

$$54. y = \sin t + \frac{\cot^2 t}{\csc t}$$

In Exercises 55–58, use the properties of logarithms and trigonometric identities to verify the identity.

$$55. \ln|\cot \theta| = \ln|\cos \theta| - \ln|\sin \theta|$$

$$56. \ln|\sec \theta| = -\ln|\cos \theta|$$

$$57. -\ln|1 + \cos \theta| = \ln|1 - \cos \theta| - 2 \ln|\sin \theta|$$

$$58. -\ln|\csc \theta + \cot \theta| = \ln|\csc \theta - \cot \theta|$$

In Exercises 59–62, use the cofunction identities to evaluate the expression without using a calculator.

$$59. \sin^2 35^\circ + \sin^2 55^\circ$$

$$60. \cos^2 14^\circ + \cos^2 76^\circ$$

$$61. \cos^2 20^\circ + \cos^2 52^\circ + \cos^2 38^\circ + \cos^2 70^\circ$$

$$62. \sin^2 18^\circ + \sin^2 40^\circ + \sin^2 50^\circ + \sin^2 72^\circ$$

# Chapter 5 Analytic Trigonometry Answers

**Padhraic Smyth**



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