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Simplify each expression.

44. $\frac{\sec x}{\tan x}$ **csc x**

45. $\frac{\cot \theta}{\cos \theta}$ **csc \theta**

47. $(\sin x + \cos x)^2 + (\sin x - \cos x)^2$ **2**

48. $\sin x \cos x \sec x \cot x$ **cos x**

49. $\cos x \tan x + \sin x \cot x$ **sin x + cos x**

50. $(1 + \cos \theta)(\csc \theta - \cot \theta)$ **sin \theta**

51. $1 + \cot^2 \theta - \cos^2 \theta - \cos^2 \theta \cot^2 \theta$ **1**

52. $\frac{\sin x}{1 + \cos x} + \frac{\sin x}{1 - \cos x}$ **2csc x**

53. $\cos^4 \alpha + 2 \cos^2 \alpha \sin^2 \alpha + \sin^4 \alpha$ **1**