





$$\frac{1 + \cot^2 x}{\csc^2 x} = 1$$

$$\frac{\sec x}{\cos x} - 1 = \frac{\sin^2 x}{\cos^2 x}$$

$$\frac{\cot^2 x}{1 + \csc x} = (\cot x)(\sec x - \tan x)$$