

Verifying Trigonometric Identities

- Guidelines for Verifying Trig Identities
1. work with ONE side only
 2. use algebraic technique
(factor, add fractions, monomial denominators)
 3. substitute using basic identities
 4. TRY SOMETHING!!

Example 1:

Verify $\frac{\csc^2 x}{\cot x} = \csc x \sec x$

Example 2:

Verify $\frac{\tan \theta}{1 + \sec \theta} + \frac{1 + \sec \theta}{\tan \theta} = 2 \csc \theta$

Example 3:

Verify $\frac{\cot^3 t}{\csc t} = \cos t (\csc^2 t - 1)$