

❖ RULES:

- Cannot _____ values from one side of _____ to the other. This would imply the statement is _____ --- that is what you are trying to _____.
- Use trig identities to _____ one or both _____ of the expressions until the statement is _____.

Ex. Use trig identities to verify these statements.

1. $\tan^2 \theta + \cos^2 \theta + \frac{1}{\csc^2 \theta} = \sec^2 \theta$

2. $\sec \beta \csc \beta = \tan \beta + \cot \beta$

3. $\frac{1 + \tan \theta}{1 + \cot \theta} = \tan \theta$

4. $\frac{\sin \theta}{1 + \cos \theta} + \frac{1 + \cos \theta}{\sin \theta} = 2 \csc \theta$

5. $\frac{\tan \beta + \cot \beta}{\sec \beta \csc \beta} = 1$

6. $\frac{1 - \sin \theta}{\cos \theta} = \frac{\cos \theta}{1 + \sin \theta}$

Assignment: Worksheet #1 Verifying Trig Identities

Worksheet #2 Verifying Trig Identities