

Pre-Calculus – Trig Identities Worksheet

Name: _____

Date: _____ Per: _____

Simplify each expression into a single trigonometric function.

1. $\frac{\tan \theta}{\sec \theta}$

2. $\frac{\csc \theta}{\cot \theta}$

3. $\frac{\sin^2 \theta + \cos^2 \theta}{\cos \theta}$

4. $(\cot \theta)(\sec \theta)$

5. $\frac{\sin \theta}{1 - \cos^2 \theta}$

6. $\tan \theta(\cot \theta + \tan \theta)$

7. $\csc \theta(1 - \cos^2 \theta)$

8. $\frac{\csc^2 \theta}{\sec^2 \theta}$