

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