

Name _____

Date _____

WORKSHEET - THE BASIC 8 TRIG IDENTITIES

Simplify each expression to a single trig function or number.

1. $\sec \theta \sin \theta$

2. $\cos \theta \tan \theta$

3. $\tan^2 \theta - \sec^2 \theta$

4. $1 - \cos^2 \theta$

5. $(1 - \cos \theta)(1 + \cos \theta)$

6. $(\sec x - 1)(\sec x + 1)$

7. $\frac{1}{\sin^2 A} - \frac{1}{\tan^2 A}$

8. $1 - \frac{\sin^2 \theta}{\tan^2 \theta}$

9. $\frac{1}{\cos^2 \theta} - \frac{1}{\cot^2 \theta}$

10. $\cos \theta (\sec \theta - \cos \theta)$

11. $\cos^2 A (\sec^2 A - 1)$

12. $(1 - \cos x)(1 + \sec x)(\cos x)$

13. $\frac{\sin x \cos x}{1 - \cos^2 x}$

14. $\frac{\tan^2 \theta}{\sec \theta + 1} + 1$