

Proofs

Name: _____

Time> Start: _____ Finish: _____

Total Time = _____

Simplify

1. $\frac{\tan x \bullet \csc x}{\sec x}$

2. $\tan x \bullet \csc x \bullet \cos x$

3. $\frac{\cos^2 \theta}{1 + \sin \theta}$

4. $\frac{\cos \theta}{\sin \theta \bullet \cot^2 \theta}$

5. $\frac{\tan x \bullet \cos x}{\sin x}$

6. $\frac{\tan^2 x}{\sec^2 x}$

7. $\cos x \bullet \sec x - \cos x \bullet \cos x$

8. $(1 - \sin x)(1 + \sin x)$

$$9. \quad \sin x \cdot \csc x \cdot \cos x$$

$$10. \quad \tan x \cdot \sin x \cdot \cos x$$

$$11. \quad \sin x \cdot \cos x \cdot \cot x$$

$$12. \quad \tan x \cdot \sec x \cdot \sin x$$

$$13. \quad \sin(90^\circ + \theta)$$

$$14. \quad \cos(90^\circ + \theta)$$

$$15. \quad \sin(180^\circ + \theta)$$

$$16. \quad \cos(180^\circ - \theta)$$