

Algebra 2 Simplifying Trigonometric Expressions Spring 2014

Simplify each trigonometric expression to a single trigonometric function or a constant.

1. $(\cos x)(\tan x)(\sin x) =$

2. $\frac{\tan \theta}{\sec \theta} =$

3. $\sin x(\tan x + \cot x) =$

4. $\frac{\sin x}{\cos x \cdot \tan x} =$

5. $(1 - \cos^2 x) \csc x =$

6. $\frac{\sin^2 x}{\cos x} + \cos x =$

7. $\sin \theta + \cos \theta \cot \theta =$

8. $\cos^2 A + \cos^2 A \tan^2 A =$

9. $\cos x \cot x + \sin x =$

10. $\frac{\sec x - \cos x}{\sec x} =$

11. $\frac{1 - \cos^2 \theta}{\sec^2 \theta - 1} =$

12. $\frac{\sec x}{\cot x + \tan x} =$

13. $\frac{\sec x}{\sin x} - \frac{\sin x}{\cos x} =$

14. $\frac{(1 - \cos x)(1 + \cos x)}{\cos^2 x} =$