

Simplifying Trigonometric Expressions

Simplify each expression.

1) $\frac{\sin x}{\tan x}$

2) $\sec^2 x - \tan^2 x$

3) $\csc^2 x \sin^3 x$

4) $\frac{\cos x}{\sec x}$

5) $\frac{1 - \sin^2 x}{\sin^2 x}$

6) $(\cot^2 x + 1) \sin x$

7) $\frac{\tan x \cos^2 x}{\sec x}$

8) $\cot^2 x (\sec^2 x - 1)$
