

**Simplify**

Simplify each expression using trigonometric fundamental identities.

1)  $\frac{\sin^2 x}{\cos x} + \cos x$

2)  $\csc^2 x \tan x$

3)  $\cos x \tan x$

x)  $\sin x$

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5)  $1 + \tan^2 x$

7)  $\frac{\cot^2 x}{\csc^2 x}$

8)  $\cot x \sec x \sin x$