

**Simplify**

Simplify each trigonometric expression using Pythagorean identities.

1)  $\frac{\cos^2 x \sec^2 x - \sin^2 x}{\tan x \cos^2 x}$

2)  $\sin^2 x \cos x - \cos x$

3)  $\sin^2 x \cot^2 x +$

$\frac{2}{\cos^2 x}$

c

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5)  $\frac{\csc^2 x - \cot^2 x}{\sec x}$

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$1 + \cos x)$

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5)  $\frac{\csc^2 x - \cot^2 x}{\sec x}$

**cot x****3 x****PREVIEW**

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**1****2 x****c****x**

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**1 + cos x)****cos x****sin<sup>2</sup> x**