

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

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

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