

Simplify

Simplify each trigonometric expression using Pythagorean identities.

1) $\frac{\sin^2 x - \cos^2 x}{\sin^4 x - \cos^4 x}$

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

3) $\frac{1}{1 - \sin x} + \frac{1}{1 + \sin x}$

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

5) $\cot x \tan x - \csc x \sec x$

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