

# Precalculus

## 5-02 Fundamental Trigonometric Identities Part B

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Factor and simplify  $\sin^4 x - \cos^4 x$

Multiply and simplify  $(2 \csc x + 2)(2 \csc x - 2)$

Simplify  $\frac{\cos x}{1 + \sin x} + \frac{1 + \sin x}{\cos x}$

Rewrite not as a fraction:  $\frac{3}{\sec x - \tan x}$

Use trig substitution:  $\sqrt{x^2 - 9}$  with  $x = 3 \sec \theta$