

**Verify - Pythagorean Identities**

Verify the following.

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

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

3)  $\cot^4 x + \cot^2 x$

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## Verify - Pythagorean Identities

Verify the following.

4)  $(1 - \sin^2 x) \tan(90^\circ - x) = \cos^3 x \csc x$

5)  $1 - 2 \sin^2 x + \sin^2 x$

6)  $\frac{\sec^2 x - \sin^2 x}{\cot x}$

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