

Verify - Pythagorean Identities

Verify the following.

1) $\cos^4 x + 2 \cos^2 x \sin^2 x + \sin^4 x = 1$

2) $(\csc x - \cot x) (\csc x + \cot x) = 2 \csc x - 1$

3) $\frac{\csc x (1 - \cos^2 x)}{\cos x \sin x} = \csc x$

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Verify - Pythagorean Identities

Verify the following.

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

5) $\cot^2(90^\circ - x) -$

6) $-\frac{\sin x}{\cos x} + \frac{\sec}{\sin}$

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