

Verify - Pythagorean Identities

Verify the following.

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

2) $\frac{\tan^2 x + 1}{\tan^2 x} = \csc^2 x$

3) $\frac{\csc^2 x - \tan^2 (90^\circ - x)}{\csc^2 (90^\circ - x) - \tan^2 x} = \frac{\csc^2 x - \cot^2 x}{\csc^2 x - \cot^2 x}$

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Verify the following.

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

5) $\sec^2 x - 1 = \sin^2 x$

6) $\frac{\cos x}{\csc^2 x - 1} = \tan x$

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