

**Verify - Fundamental Identities**

Verify the following.

1)  $\csc^2(90^\circ - x) - \sec^2(90^\circ - x) = \tan^2 x - \cot^2 x$

2)  $\tan x \sin x + \cot x \cos x = \sec x$

3)  $\cot x \sec x \sin x = \cos x$

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## Verify - Fundamental Identities

Verify the following.

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

5)  $\tan^2 x - \sin^2 x$

6)  $1 + \cos^2 x \csc$

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