

TRIGONOMETRY II - LESSON TWO

PART III THREE SPECIAL IDENTITIES

Questions: Use the special identities to do each of the following proofs.

1) $\sec x - \tan x \sin x = \cos x$

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

3) $\tan x + \cot x = \sec x \csc x$

4) $1 + \tan^2 x = \sec^2 x$

5) $\sec x - \cos x = \tan x \sin x$

6) $\sin x + \cot x \cos x = \csc x$

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

8) $1 - \csc^2 x = -\cot^2 x$

9) $\csc x - \sin x = \cos x \cot x$

10) $1 - \sec^2 x = -\tan^2 x$