

Key ideas to remember when verifying identities:

1. Verify the following equations:

a. $\sec x \cot x = \csc x$

b. $\csc x \tan x = \sec x$

c. $\sin x \tan x + \cos x = \sec x$

d. $\cos x - \cos x \sin^2 x = \cos^3 x$

7.2 Verifying Identities

Honors Algebra 2

e. $\cos x \cot x = \frac{1 - \sin^2 x}{\sin x}$

f. $\frac{\tan x - \sin(-x)}{1 + \cos x} = \tan x$

7.2 Verifying Identities

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g. $\frac{\sin x}{1+\cos x} = \frac{1-\cos x}{\sin x}$

h. $\frac{1}{1+\cos \theta} + \frac{1}{1-\cos \theta} = 2 + 2\cot^2 \theta$