Guidelines for Verifying Trigonometric Identities Work with one side of the equation at a time. Look for opportunities to factor, simplify, etc. Look for opportunities to use fundamental identities. Try converting all to sines and cosines. TRY SOMETHING!!		
Example #1	$(1+\sin x)(1-\sin x)=\cos^2 x$	
Example #2	$\cos^2 \beta - \sin^2 \beta = 1 - 2\sin^2 \beta$	
Example #3	$\csc x - \sin x = \cos x \cot x$	
Example #4	$\csc^4 \theta - \cot^4 \theta = 2\csc^2 \theta - 1$	

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Example #5	$\frac{\cos(-\theta)}{1+\sin(-\theta)} = \sec\theta + \tan\theta$
Example #6	$\frac{\tan x + \cot y}{\tan x \cot y} = \tan y + \cot x$