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| 2.2 ~ | <ul> <li>Verifying Trigonometric Identities</li> </ul> |
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Rules: \* Work on one side at a time. \* Factor, add, multiply as needed. \* fall else fails, change everything to sines and cosines. \* Never multiply or divide both sides by something. \* Always try something. Example 1: Verify this identity

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

Example 2: Verify sec x - cos x = sin x tan x Rationalizing the denominator by using a conjugate is powerful.

Example 3: Verify

 $\frac{\sec x - 1}{1 - \cos x} = \sec x$ 

