

## 5.2 Verifying Trigonometric Identities

### 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  $(1 + \sin x)(1 - \sin x) = \cos^2 x$

$$1 - \cancel{\sin x} + \cancel{\sin x} - \sin^2 x =$$

$$1 - \sin^2 x =$$

$$\cos^2 x = \cos^2 x \checkmark$$