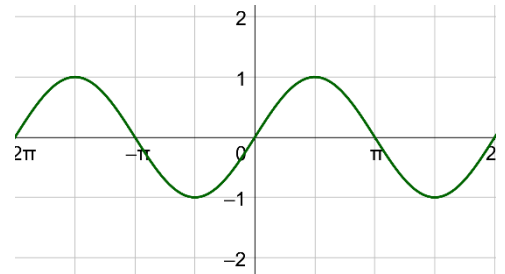


# Precalculus

## 5-04 Solve Trigonometric Equations

- Main goal – Isolate a \_\_\_\_\_ expression
  - Try \_\_\_\_\_ to simplify
  - Try solving by \_\_\_\_\_



### Number of solutions

- $\sin x = 0$
- Infinite solutions so describe
- \_\_\_\_\_

Solve  $\sin x - \sqrt{2} = -\sin x$

Solve  $4 \sin^2 x - 3 = 0$

Solve  $\sin^2 x = 2 \sin x$

$$\text{Solve } 3 \sec^2 x - 2 \tan^2 x - 4 = 0$$

$$\text{Solve in the interval } [0, 2\pi): \sin x + 1 = \cos x$$

$$\text{Solve on the interval } [0, 2\pi): \sin 2x = \frac{\sqrt{3}}{2}$$

$$\text{Solve } 4 \tan^2 x + 5 \tan x = 6$$