

Definition: A Quadratic Equation can be written in the form

 $ax^2 + bx + c = 0$ , where *a*, *b*,  $c \in \mathbb{R}$ ,  $a \neq 0$ 

Ex 1: Solve  $5x^2 - 32 = x^2 + 8$ 

Strategies to Solve
1. Square Root Technique

2. Factor Technique

Ex 2: Solve 2x(5x + 6) = 16

3. Completing the Square

4. Quadratic Formula

Ex 3: Solve  $y^2 + y - 4 = 0$ 

Ex 4: Solve  $x^2 + 4 = 6x$ 

