

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 $x^2 + 4 = 6x$

