

# Quadratic Equations

A **quadratic equation** is a quadratic expression that is equal to something. Quadratic equations contain terms up to  $x^2$  – the highest power for a quadratic equation is 2.

They have the general form  $ax^2 + bx + c = 0$

## Examples

$$x^2 = 5$$

$$x^2 - 2x + 1 = 0$$

$$x^2 - 16 = 0$$

$$2 = 2x^2 + 3x$$

A quadratic equation can have zero, one or two (real) solutions.