What is a Ouadratic Function?

A function that can be written in the form...

$$f(x) = ax^2 + bx + c$$

where a, b, and c are real numbers and $a \neq 0$.

$$f(x) = 2x^2 + 3x + 2$$
 $f(x) = -4x^2 - 8$

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$$f(x) = 5x + 4$$

$$f(x) = 5x + 4$$
 $f(x) = -x^2 + 2x$

What is a Quadratic Equation?

An equation that can be written in the form...

$$0 = ax^2 + bx + c$$

where a, b, and c are real numbers and $a \neq 0$.

$$0 = x^2 + 2x + 9$$
 $0 = 4x^2 - 16$ $-6x = 3x^2 + 8$ $3x + 6 = -x^2$

$$0 = 4x^2 - 16$$

$$-6x = 3x^2 + 8$$

$$3x + 6 = -x^2$$

Quadratic Function

Quadratic Equation

$$f(x) = ax^2 + bx + c$$
 $0 = ax^2 + bx + c$

$$0 = ax^2 + bx + c$$

where a, b, and c are real numbers and $a \neq 0$.