

Section 3.1 Quadratic Functions and Models

DEFINITION: A quadratic function is a function f of the form

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

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

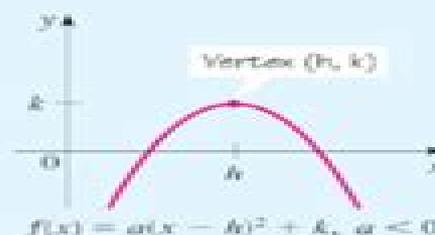
Graphing Quadratic Functions Using the Standard Form

Standard Form of a Quadratic Function

A quadratic function $f(x) = ax^2 + bx + c$ can be expressed in the **standard form**

$$f(x) = a(x - h)^2 + k$$

by completing the square. The graph of f is a parabola with **vertex** (h, k) ; the parabola opens upward if $a > 0$ or downward if $a < 0$.



EXAMPLE: Let $f(x) = x^2 + 10x - 1$. Express f in standard form. Identify the vertex.

Solution: We have

$$\begin{aligned} f(x) &= x^2 + 10x - 1 \\ &= x^2 + 2x \cdot 5 - 1 \\ &= x^2 + 2x \cdot 5 + 5^2 - 5^2 - 1 \\ &= (x + 5)^2 - 26 \\ &= (x - (-5))^2 + (-26) \end{aligned}$$

The vertex is $(-5, -26)$.

EXAMPLE: Let $f(x) = 2x^2 - 12x + 23$.

(a) Express f in standard form.

(b) Sketch the graph of f .

Section 3 1 Quadratic Functions

Arturo Cuomo



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