

CONCEPTUAL UNDERSTANDING



EXAMPLE 1

Transform a Quadratic Function

How are transformations of the graph of $f(x) = x^2$ related to an equation representing another quadratic function?

Vertex form shows three different ways in which the graph of the function $f(x) = x^2$ may be transformed.

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

The value of a determines the direction the parabola opens and whether the graph is stretched or compressed.

The value of h determines the horizontal translation.

The value of k determines the vertical translation.

A. $g(x) = -\frac{1}{2}(x + 2)^2$

The equation shows that the graph is to be translated **2 units left**, will **open downward**, and will be **vertically compressed**.



B. $j(x) = 2(x - 1)^2 - 3$

The equation shows that the graph is to be translated **1 unit right**, **vertically stretched**, **down 3 units**. It will **open upward**.



When $a > 0$ the parabola opens upward. When $a < 0$, the parabola opens downward. When $|a| > 1$, the graph is stretched, and when $0 < |a| < 1$, the graph is compressed.



Try It!

1. Describe the transformations of the parent function $f(x) = x^2$. Then graph the function.

a. $g(x) = -(x + 2)^2$

b. $g(x) = (x - 1)^2 + 2$



EXAMPLE 2

Determine Key Features of a Quadratic Function

What are the key features of the quadratic function $f(x) = 2(x - 3)^2 + 4$?

The graph represents

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

The **2** indicates that the graph opens upward and is vertically stretched.

The range is $y \geq 4$. There are no restrictions on the value of x , so the domain is all real numbers.



The axis of symmetry is the line $x = h$ or $x = 3$.

The vertex is the ordered pair (h, k) , or $(3, 4)$.



Try It!

2. Identify the vertex, axis of symmetry, minimum or maximum, domain, and range of the function $f(x) = -(x + 4)^2 - 5$.

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Investigations in Number, Data, and Space, 2008. Part of a K-5 mathematics curriculum with curriculum units for classroom use and resources for teachers, the Investigations curriculum was developed at TERC, formerly Technical Education Research Centers.

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