

## 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.

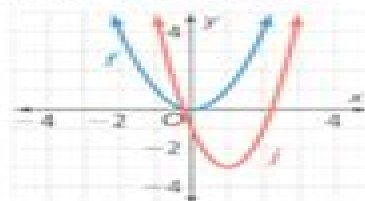
**A.**  $g(x) = -\frac{1}{2}(x + 2)^2$

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

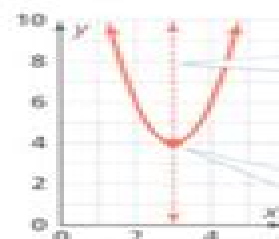
What are the key features of the quadratic function  $f(x) = 2(x - 3)^2 + 4$ ?

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

# Practice Workbook Algebra 2 Answer

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