

# Download File PDF Graphic Quadratic Functions Study Guide And Intervention

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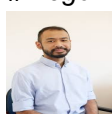
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**Graphic Quadratic Functions Study Guide And Intervention**

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

**5-1 Study Guide and Intervention**  
**Graphing Quadratic Functions**

**Graph Quadratic Functions**

<b>Quadratic Function</b>	A function defined by an equation of the form $f(x) = ax^2 + bx + c$ , where $a \neq 0$ .
<b>Graph of a Quadratic Function</b>	A parabola with three characteristics: y-intercept; axis of symmetry; $x = \frac{-b}{2a}$ ; x-coordinate of vertex $x = \frac{-b}{2a}$ .

**EXAMPLE 1** Find the y-intercept, the equation of the axis of symmetry, and the coordinates of the vertex for the graph of  $f(x) = x^2 - 3x + 5$ . Use this information to graph the function.

$a = 1$ ,  $b = -3$ , and  $c = 5$ , so the y-intercept is 5. The equation of the axis of symmetry is  $x = -\frac{b}{2a} = \frac{3}{2}$ . The x-coordinate of the vertex is  $\frac{3}{2}$ .

Next, make a table of values for  $x$  near  $\frac{3}{2}$ .

$x$	$f(x) = x^2 - 3x + 5$	$(x, f(x))$
0	$f(0) = 3(0) + 5 = 5$	(0, 5)
1	$f(1) = 3(1) + 5 = 9$	(1, 9)
2	$f(2) = 3(2) + 5 = 9$	(2, 9)
3	$f(3) = 3(3) + 5 = 14$	(3, 14)
4	$f(4) = 3(4) + 5 = 19$	(4, 19)

**Exercises**

Complete parts a–c for each quadratic function.

a. Find the y-intercept, the equation of the axis of symmetry, and the x-coordinate of the vertex.

b. Make a table of values that includes the vertex.

c. Use this information to graph the function.

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

Chapter 5      51      Glencoe Algebra 2