

# 4-1 Study Guide and Intervention

## Graphing Quadratic Functions

### Graph Quadratic Functions

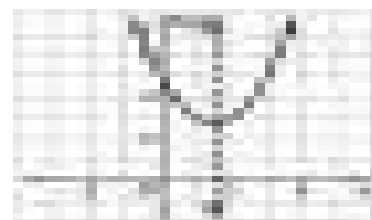
<b>Graphing Quadratic Functions</b>	Graphing a quadratic function involves identifying the vertex and the direction of opening of the parabola. The vertex form of a quadratic function is $y = a(x - h)^2 + k$ , where $(h, k)$ is the vertex. The graph of a parabola opens upward if $a > 0$ and downward if $a < 0$ .
<b>Graphing a Quadratic Function</b>	Graphing a quadratic function involves identifying the vertex and the direction of opening of the parabola. The vertex form of a quadratic function is $y = a(x - h)^2 + k$ , where $(h, k)$ is the vertex. The graph of a parabola opens upward if $a > 0$ and downward if $a < 0$ .

**Example:** Graph the  $y$ -intercept, the equation of the axis of symmetry, and the vertex of the parabola for the function  $y = x^2 - 6x + 9$ .

**Solution:** The  $y$ -intercept is  $(0, 9)$ . The equation of the axis of symmetry is  $x = 3$ . The vertex is  $(3, 0)$ .

**Check:** The graph of the parabola is shown below.

$a$	$a^2 = 1$	$b$	$b^2 = 9$
$h$	$h^2 = 9$	$k$	$k^2 = 0$
$c$	$c^2 = 9$	$d$	$d^2 = 0$
$e$	$e^2 = 9$	$f$	$f^2 = 0$
$g$	$g^2 = 9$	$h$	$h^2 = 0$
$i$	$i^2 = 9$	$j$	$j^2 = 0$



### Check Your Understanding

Graph the parabola for each quadratic function.

- Graph the  $y$ -intercept, the equation of the axis of symmetry, and the vertex of the parabola for the function  $y = x^2 - 4x + 4$ .
- Graph the parabola for the function  $y = x^2 - 2x + 1$ .
- Graph the parabola for the function  $y = x^2 - 6x + 9$ .

1. Graph  $y = x^2 - 4x + 4$ .

**Check:** The graph of the parabola is shown below.

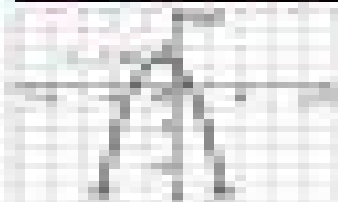
$a$	$a^2 = 1$	$b$	$b^2 = 4$
$h$	$h^2 = 4$	$k$	$k^2 = 0$
$c$	$c^2 = 4$	$d$	$d^2 = 0$
$e$	$e^2 = 4$	$f$	$f^2 = 0$
$g$	$g^2 = 4$	$h$	$h^2 = 0$
$i$	$i^2 = 4$	$j$	$j^2 = 0$



2. Graph  $y = x^2 - 2x + 1$ .

**Check:** The graph of the parabola is shown below.

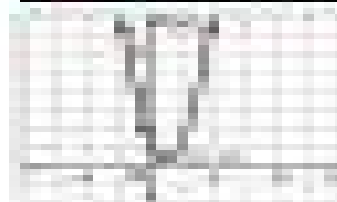
$a$	$a^2 = 1$	$b$	$b^2 = 1$
$h$	$h^2 = 1$	$k$	$k^2 = 0$
$c$	$c^2 = 1$	$d$	$d^2 = 0$
$e$	$e^2 = 1$	$f$	$f^2 = 0$
$g$	$g^2 = 1$	$h$	$h^2 = 0$
$i$	$i^2 = 1$	$j$	$j^2 = 0$



3. Graph  $y = x^2 - 6x + 9$ .

**Check:** The graph of the parabola is shown below.

$a$	$a^2 = 1$	$b$	$b^2 = 9$
$h$	$h^2 = 9$	$k$	$k^2 = 0$
$c$	$c^2 = 9$	$d$	$d^2 = 0$
$e$	$e^2 = 9$	$f$	$f^2 = 0$
$g$	$g^2 = 9$	$h$	$h^2 = 0$
$i$	$i^2 = 9$	$j$	$j^2 = 0$



# Graphic Quadratic Functions Study Guide And Intervention

**Gale Group**



## **Graphic Quadratic Functions Study Guide And Intervention:**

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*Calculator Strategies: Algebra* Pamela H. Dase, 2006-12-04 Integrate TI Graphing Calculator technology into your algebra instruction with this award winning resource book Perfect for grades 6-12 this resource includes lessons problem solving practice and step by step instructions for using graphing calculator technology 238pp plus Teacher Resource CD with PDF files of the tables templates activity sheets and student guides for TI 83 84 Plus Family and TI 73 Explorer This resource is correlated to the Common Core State Standards is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills and supports core concepts of STEM instruction

**Quadratic Equations and Curves** Leon J. Ablon, 1981

Quadratic Functions Anna Elizabeth Faina, 2017 The State of Oklahoma Academic Standards require Algebra I teachers to introduce Quadratic Functions and Algebra II teachers to go more in depth with Quadratic Functions Algebra II is a required course for students who are college bound Quadratic functions are used in Pre Calculus and Calculus Quadratic Applications can be used to model the path of a volleyball being served a rocket being shot off or many other real world applications In this unit students will learn how to identify characteristics of quadratic functions how to graph quadratic functions and how to solve quadratic functions by a variety of methods including the use of technology Students are taught three forms of quadratic functions and are expected to be able to identify all important characteristics graph given all three forms and convert between all three forms The skills learned in this unit will be a strong foundation for future use by the students

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