

# 9-1 Study Guide and Intervention

## Graphing Quadratic Functions

### Characteristics of Quadratic Functions

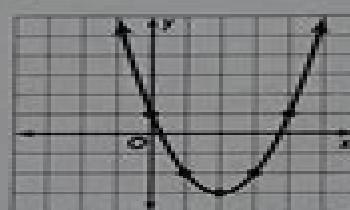
Quadratic Function	a function described by an equation of the form $f(x) = ax^2 + bx + c$ , where $a \neq 0$	Example: $y = 2x^2 + 3x + 8$
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The parent graph of the family of quadratic functions is  $y = x^2$ . Graphs of quadratic functions have a general shape called a **parabola**. A parabola opens upward and has a **minimum point** when the value of  $a$  is positive, and a parabola opens downward and has a **maximum point** when the value of  $a$  is negative.

#### Example 1:

a. Use a table of values to graph  $y = x^2 - 4x + 1$ .

x	y
-1	6
0	1
1	-2
2	-3
3	-2
4	1



Graph the ordered pairs in the table and connect them with a smooth curve.

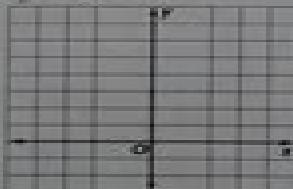
b. What are the domain and range of this function?

The domain is all real numbers. The range is all real numbers greater than or equal to -3, which is the minimum.

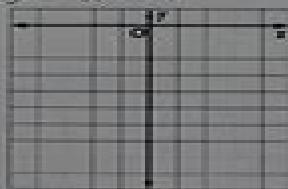
### Exercises

Use a table of values to graph each function. Determine the domain and range.

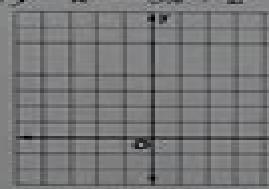
1.  $y = x^2 + 2$



2.  $y = -x^2 - 4$



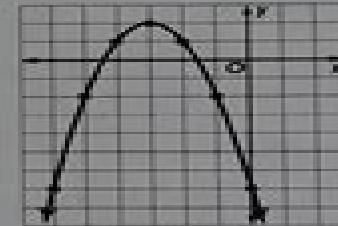
3.  $y = x^2 - 3x + 2$



#### Example 2:

a. Use a table of values to graph  $y = -x^2 - 6x - 7$ .

x	y
-6	-7
-5	-2
-4	1
-3	2
-2	1
-1	-2
0	-7



Graph the ordered pairs in the table and connect them with a smooth curve.

b. What are the domain and range of this function?

The domain is all real numbers. The range is all real numbers less than or equal to 2, which is the maximum.

# 6 1 Study Guide And Intervention Graphing Quadratic Functions Answers 239047

**Julia Schneider**

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