

NAME \_\_\_\_\_

DATE \_\_\_\_\_

**Module 14** Graphing Quadratic Relations  
**Lesson 1** Graphing Simple Quadratic Relations



**guided  
notes**

**Lesson Objectives**

- Graph a quadratic relation by finding five to seven points on the graph.
- Graph a quadratic relation by finding the vertex and using symmetry.

The U-shaped curve of the equation  $y = x^2$  is called a parabola.

The point where the parabola turns is called the \_\_\_\_\_.

The vertical line through the vertex is called the \_\_\_\_\_.

The graphs of the quadratic relations  $y = x^2$  and  $y = -x^2$  are both

\_\_\_\_\_.

The standard form equation for a parabola that opens up or down is

\_\_\_\_\_, where \_\_\_\_\_.

For a parabola with equation,  $y = ax^2 + bx + c$ , the axis of symmetry has the equation \_\_\_\_\_.

**1** Graph  $x^2 = y + 8$ .

Equation for the axis of symmetry:

\_\_\_\_\_

Vertex:

\_\_\_\_\_



