

NAME \_\_\_\_\_

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

**guided  
practice**

**Set 1**

1. Find and graph the axis of symmetry for  
 $y = -x^2 + 6x - 10$ .

Axis of Symmetry:  $x = 3$  \_\_\_\_\_

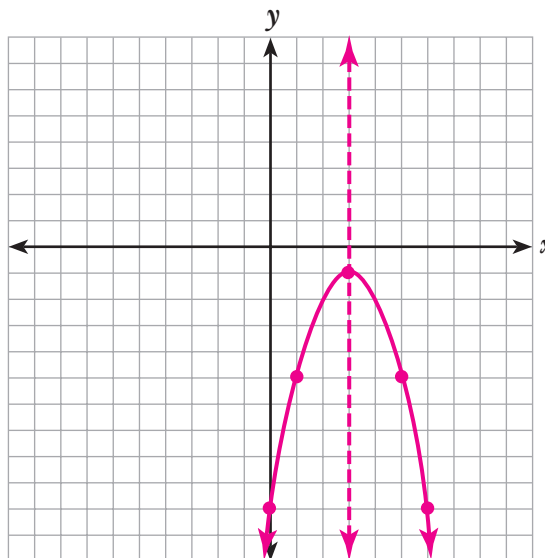
2. Find and graph the vertex for  
 $y = -x^2 + 6x - 10$ .

Vertex:  $(3, -1)$  \_\_\_\_\_

3. Find and plot four other points on the graph of  
 $y = -x^2 + 6x - 10$ .

**Possible answers:  $(1, -5), (5, -5), (0, -10), (6, -10)$**

4. Graph  $y = -x^2 + 6x - 10$ .



5. Find and graph the axis of symmetry for  
 $y = 4x + x^2 - 3$ .

Axis of Symmetry:  $x = -2$  \_\_\_\_\_

6. Find and graph the vertex of  
 $y = 4x + x^2 - 3$ .

Vertex:  $(-2, -7)$  \_\_\_\_\_

7. Find and plot four other points on the graph of  
 $y = 4x + x^2 - 3$ .

**Possible answers:  $(0, -3), (-4, -3), (1, 2), (-5, 2)$**

8. Graph  $y = 4x + x^2 - 3$ .

