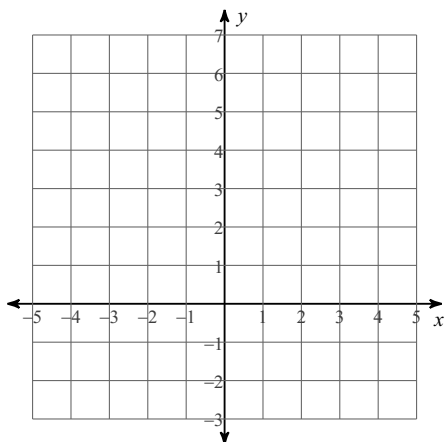


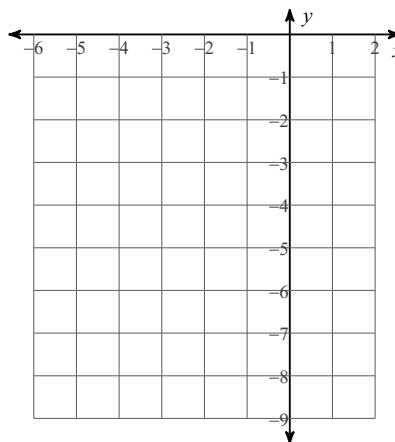
# Graphing Quiz

Sketch the graph of each function.

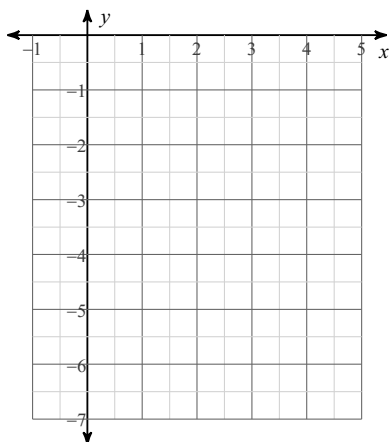
1)  $y = 2x^2 + 12x + 16$



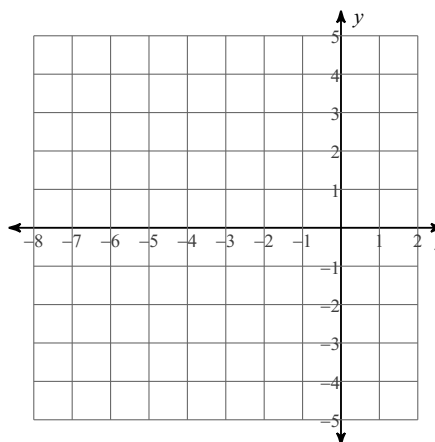
2)  $y = -x^2 - 4x - 8$



3)  $y = -(x - 2)^2 - 2$



4)  $y = 2(x + 3)^2 - 4$



Identify the vertex and axis of symmetry of each.

5)  $y = -2x^2 + 24x - 63$

$$6) y = x^2 - 18x + 89$$

**Describe the Transformation.**

$$7) y = \frac{3}{8}(x - 1)^2$$

$$8) y = -(x - 2)^2 - 6$$

$$9) y = -3(x + 1)^2 - 4$$

$$10) y = (x - 4)^2 + 4$$

**Use the information provided to write the vertex form equation of each parabola.**

$$11) y = -3x^2 - 30x - 82$$

$$12) y = x^2 + 16x + 63$$

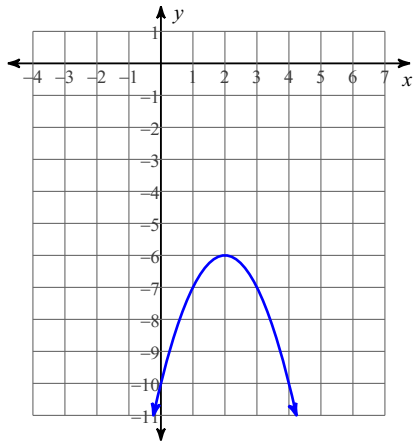
**Use the information provided to write the standard form equation of each parabola.**

$$13) y = -(x + 5)^2 - 6$$

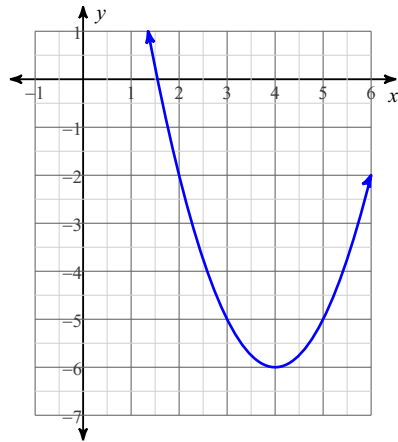
$$14) y = (x - 4)^2 + 5$$

Answer the following information given these graphs.

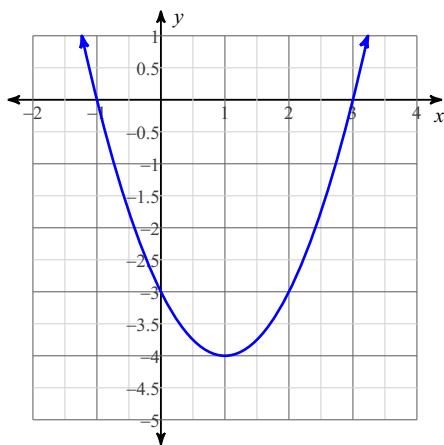
15)



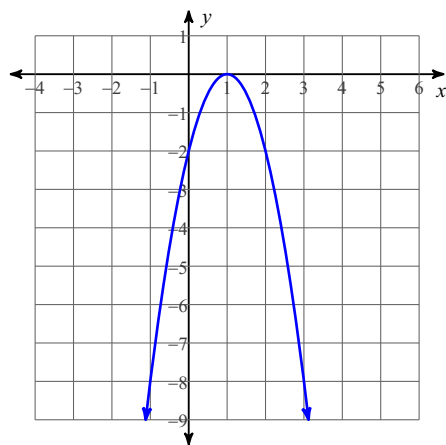
16)



17)



18)

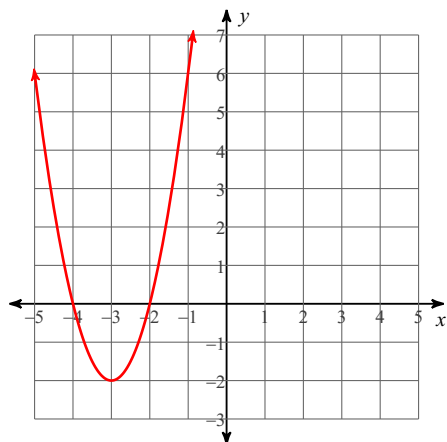


## Graphing Quiz

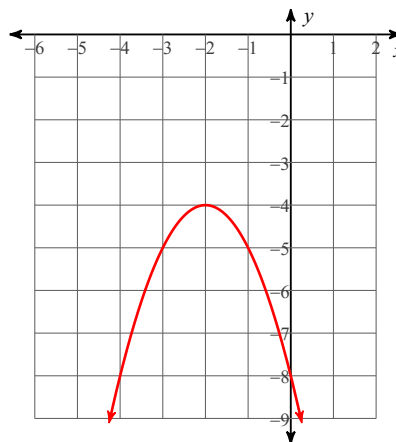
Date \_\_\_\_\_ Period \_\_\_\_\_

Sketch the graph of each function.

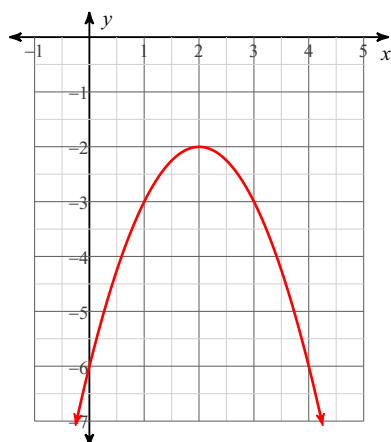
1)  $y = 2x^2 + 12x + 16$



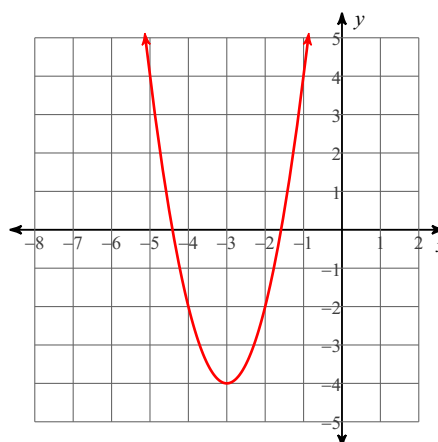
2)  $y = -x^2 - 4x - 8$



3)  $y = -(x - 2)^2 - 2$



4)  $y = 2(x + 3)^2 - 4$



Identify the vertex and axis of symmetry of each.

5)  $y = -2x^2 + 24x - 63$  Vertex: (6, 9)  
 Axis of Sym.:  $x = 6$

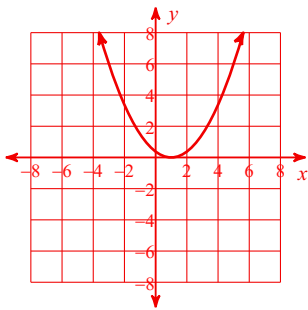
$$6) y = x^2 - 18x + 89$$

Vertex: (9, 8)

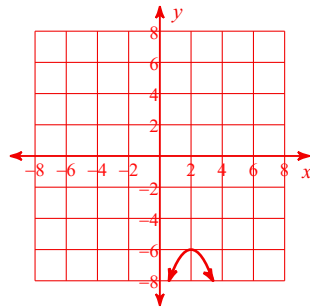
Axis of Sym.:  $x = 9$

**Describe the Transformation.**

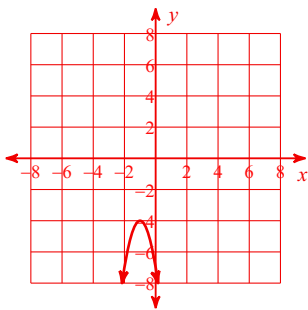
$$7) y = \frac{3}{8}(x - 1)^2$$



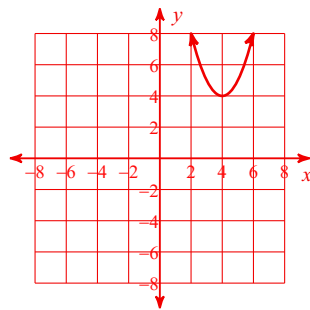
$$8) y = -(x - 2)^2 - 6$$



$$9) y = -3(x + 1)^2 - 4$$



$$10) y = (x - 4)^2 + 4$$



**Use the information provided to write the vertex form equation of each parabola.**

$$11) y = -3x^2 - 30x - 82$$

$$y = -3(x + 5)^2 - 7$$

$$12) y = x^2 + 16x + 63$$

$$y = (x + 8)^2 - 1$$

**Use the information provided to write the standard form equation of each parabola.**

$$13) y = -(x + 5)^2 - 6$$

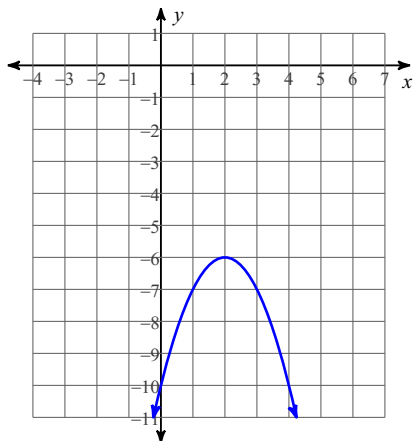
$$y = -x^2 - 10x - 31$$

$$14) y = (x - 4)^2 + 5$$

$$y = x^2 - 8x + 21$$

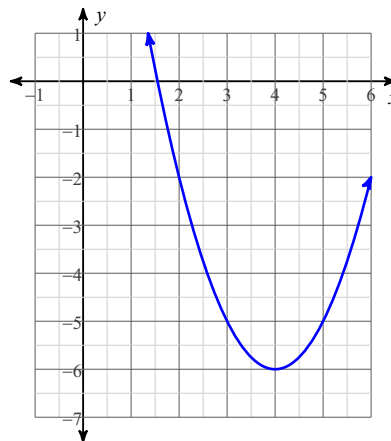
Answer the following information given these graphs.

15)

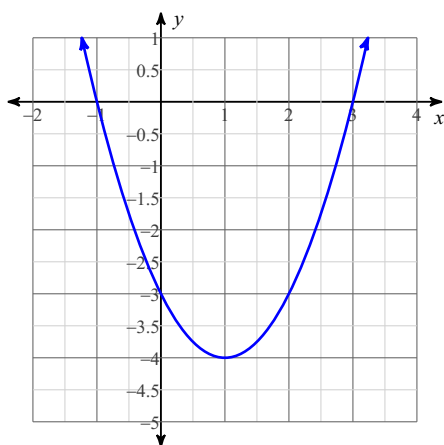


$$y = -(x - 2)^2 - 6$$

$$y = (x - 4)^2 - 6$$



17)



$$y = (x - 1)^2 - 4$$

$$y = -2(x - 1)^2$$

