

Name:

Date:

Period:

Practice Worksheet: Graphing Quadratic Functions in Standard Form

- 1) For any quadratic of the form  $y = ax^2 + c$ , the axis of symmetry is always the line  $x = 0$ .
- 2) If the axis of symmetry of a quadratic is  $x = 2$  and  $(-1, 3)$  is on the graph, then the point  $(5, 3)$  must also be on the graph.
- 3) For any quadratic of the form  $y = ax^2 + c$ , the y-intercept is always the same point as the vertex.
- 4) The graph of  $y = 2x^2 + 4x + 3$  passes through the point  $(1, 9)$  and  $(-1, 1)$ .

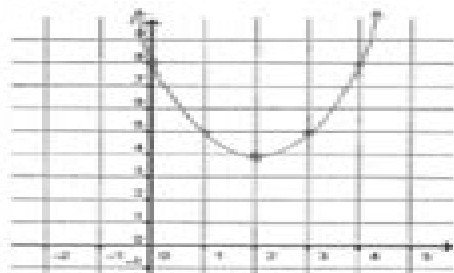
For #5-12, label the axis of symmetry, vertex, y-intercept, and at least three more points on the graph.

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

$a = 1 \quad b = -4 \quad c = 8$

Opens up or down? upIs vertex a max or min? miny-intercept:  $(0, 8)$ Axis of Symmetry is  $x = 2$ 

$x = \frac{-b}{2a} = 2$

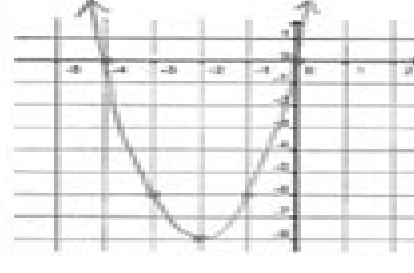
Vertex:  $(2, 4)$ 

6)  $y = 2x^2 + 8x$

$a = 2 \quad b = 8 \quad c = 0$

Opens up or down? upIs vertex a max or min? miny-intercept:  $(0, 0)$ Axis of Symmetry is  $x = -2$ 

$x = \frac{-b}{2a} = \frac{-8}{4} = -2$

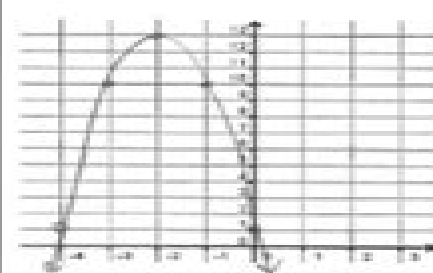
Vertex:  $(-2, -8)$ 

7)  $y = -3x^2 - 12x + 1$

$a = -3 \quad b = -12 \quad c = 1$

Opens up or down? DownIs vertex a max or min? Maxy-intercept:  $(0, 1)$ Axis of Symmetry is  $x = -2$ 

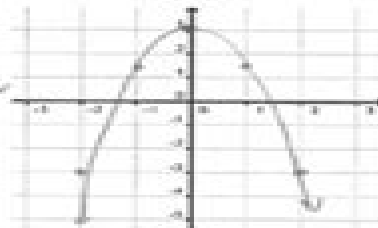
$x = \frac{-b}{2a} = -2$

Vertex:  $(-2, 13)$ 

$(0, 1)$   
 $(-2, 13)$   
 $(-4, -11)$

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

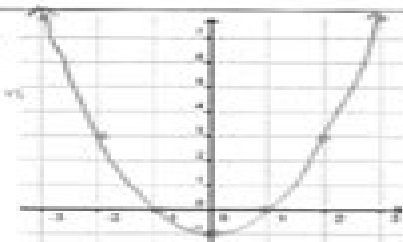
$a = -\frac{1}{2} \quad b = 0 \quad c = 3$

Opens up or down? DownIs vertex a max or min? Maxy-intercept:  $(0, 3)$ Axis of Symmetry is  $x = 0$ Vertex:  $(0, 3)$ 

Find the coordinates  $(2, -3)$  and  $(-2, -3)$  to guide the shape of the parabola.

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

$a = 2 \quad b = 0 \quad c = -1$

Opens up or down? upIs vertex a max or min? Miny-intercept:  $(0, -1)$ Axis of Symmetry is  $x = 0$ Vertex:  $(0, -1)$ 

Find the coordinates  $(2, 3)$  and  $(-2, 3)$  to guide the shape of the parabola.

$1(-4)$   
 $3(-4)$   
 $5(-4)$   
 $7(-4)$

$-10$   
 $-40$   
 $-70$

# Graphing Quadratic Functions Answer Sheet

**Michael Smith**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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