

# 4.1 Re-Teach Worksheet

Name \_\_\_\_\_

## Intermediate Algebra

**Learning Target:** I can graph quadratic functions and demonstrate understanding of the relationship between different forms of quadratic equations and their graphs.

Find the vertex of each function and then graph.

1)  $y = 2x^2 + 4x - 6$

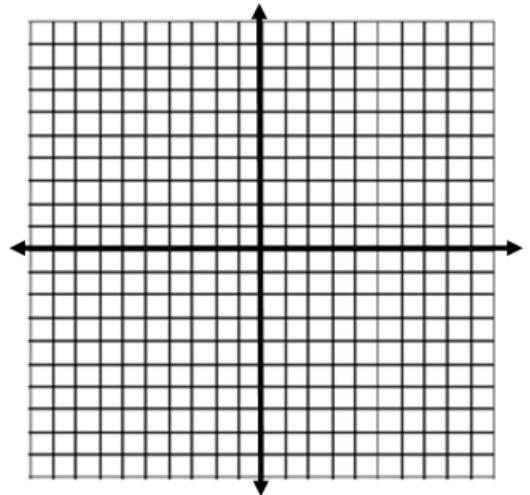
a. Vertex: \_\_\_\_\_

b. Axis of Symmetry:

c. Y – Intercept:

d. show work or explain how you found the vertex:

X	Y



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

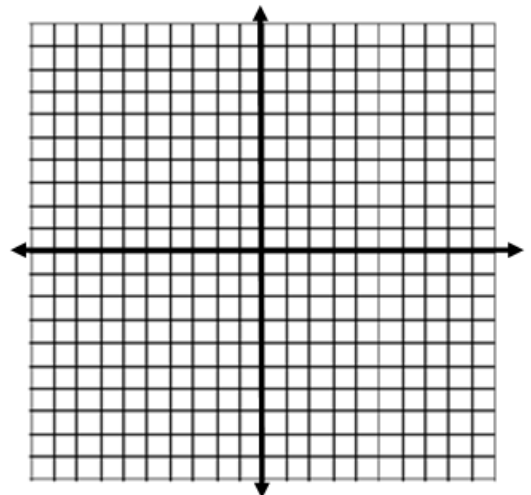
a. vertex: \_\_\_\_\_

b. Axis of Symmetry:

c. Y – Intercept:

d. show work or explain how you found the vertex:

X	Y

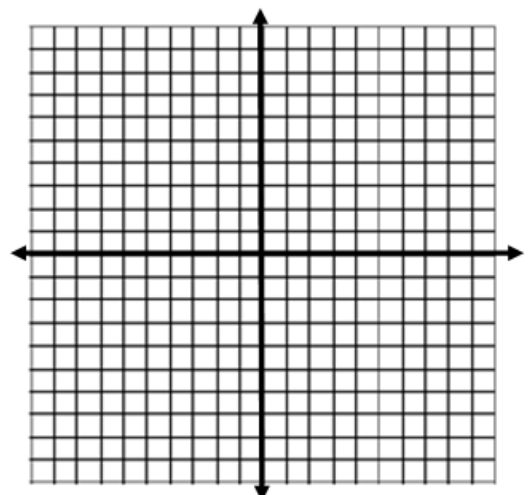


3)  $y = -(x - 3)(x + 1)$

a. vertex: \_\_\_\_\_

b. x-intercepts: \_\_\_\_\_

X	Y



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## Intermediate Algebra

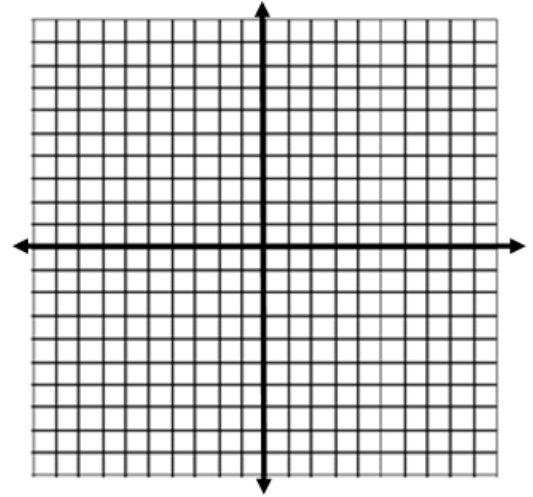
$$y = 2(x - 4)^2 + 5$$

Name \_\_\_\_\_

a. vertex: \_\_\_\_\_

b. show work or explain how you found the vertex:

X	Y



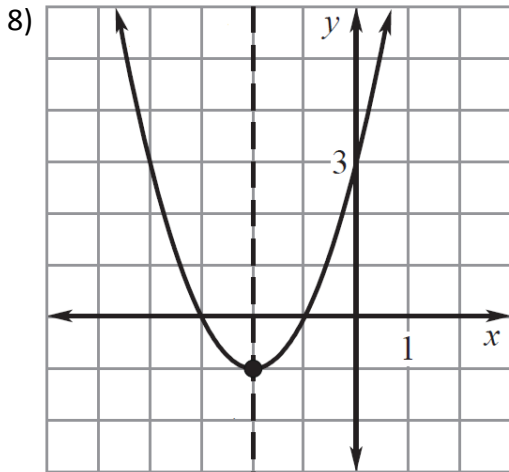
Find the vertex of each function:

4)  $y = \frac{1}{4}(x - 2)^2 + 6$

6)  $y = -4(x - 1)(x + 5)$

7)  $y = 3x^2 - 12x + 13$

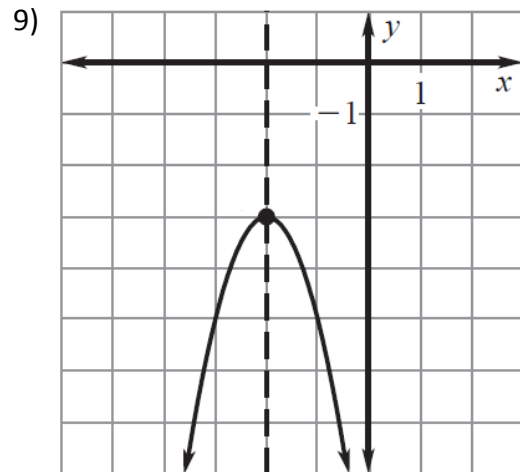
Choose which quadratic function CANNOT be represented by the shown graph.



a.  $y = (x + 2)^2 - 1$

b.  $y = (x + 1)(x + 3)$

c.  $y = x^2 - 4x + 3$



a.  $y = -2(x + 2)^2 - 3$

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

c.  $y = -2x^2 - 8x - 11$