

Algebra 1 – Homework Day 2
 Graphing Quadratic Equations – Standard Form

Name: _____

1. Match the equation with its correct graph.

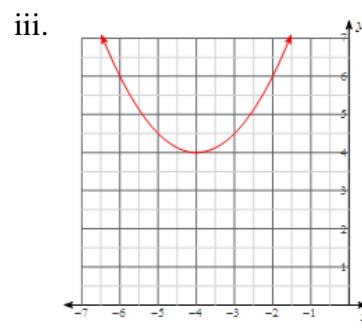
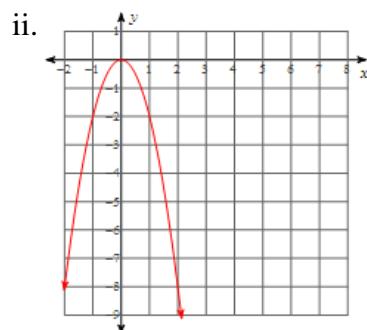
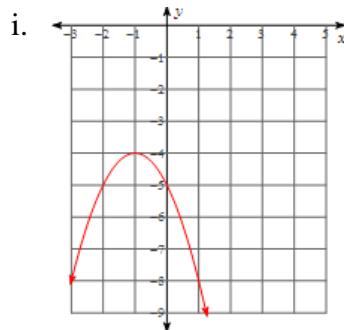
a. $y = x^2 + 3x - 2$

b. $y = \frac{1}{2}x^2 + 4x + 12$

c. $y = -\frac{1}{2}x^2$

d. $y = -x^2 - 2x - 5$

e. $y = -2x^2$



2. What is the vertex of the function $f(x) = x^2 + 6x + 3$?

2. _____

3. What is the vertex of the function $f(x) = -2x^2 - 8x + 10$?

3. _____

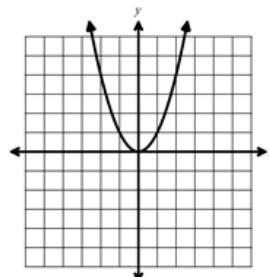
4. Given the graph of $y = x^2$, what are the zeros of the function after the transformation down one units and right two units?

a. $x = -2, x = 2$

b. $x = -3, x = -1$

c. $x = 1, x = 3$

d. $x = -3, x = 3$



5. What is the vertex form for $f(x) = -x^2 + 8x - 3$?

5. _____

6. What is the vertex form for $f(x) = 2x^2 - 4x - 5$?

6. _____