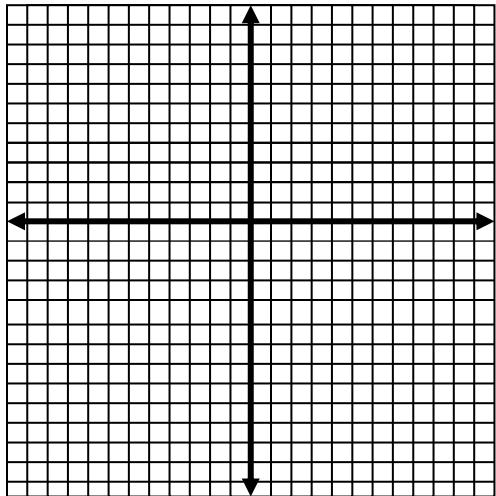


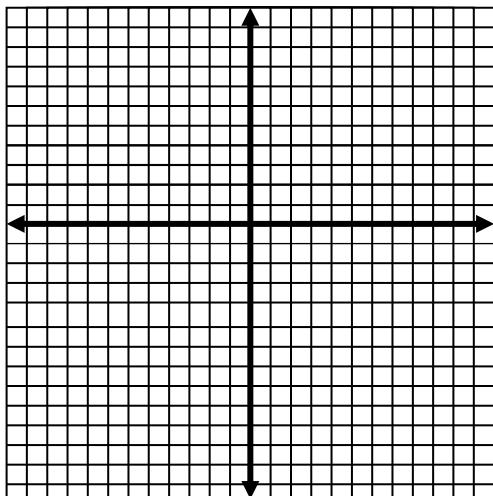
Chapter 5.1, 5.6-5.7 Review Worksheet
Algebra II

Graph. Label your vertex and label the axis of symmetry.

1. $y = 2x^2 + 8x + 5$

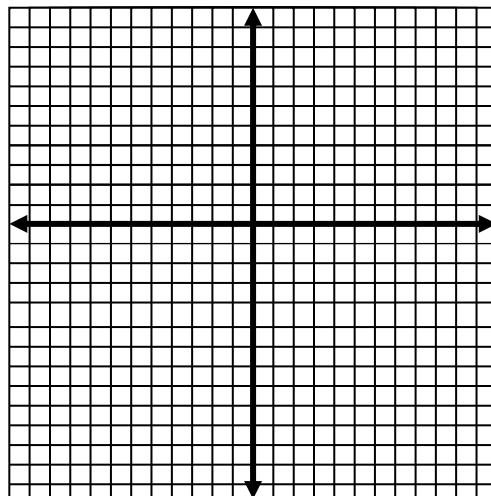


2. $y = (x+2)(x-4)$



3.

Name _____
 $y = -2(x-3)^2 - 11$



Write the quadratic function in standard form.

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

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

Use the quadratic formula to solve the equation.

6. $x^2 + 5x - 3 = 0$

7. $2x + x^2 - 5 = 0$

8. $5x^2 + 9 = -x + 8$

9. $3x^2 + 2x = x^2 + 5x - 1$

Chapter 5.1, 5.6-5.7 Review Worksheet

Algebra II

Use the quadratic formula, isolation, or factoring to solve the equation.

10. $-8x^2 + 3 = -61$

11. $3x^2 + 2x = 8$

Find the discriminant of the quadratic equation and give the number and type of solutions of the equation.

12. $-3x^2 + x - 4 = 0$

13. $x^2 + 3x + 2 = 0$

14. $x^2 - 3x + 4 = 2x^2 - 3$

15. $3x^2 - 2x = x^2 - 8$

Graph the inequality.

16. $y \leq 2x^2 + 1$

17. $y > -x^2 + 4x - 3$

