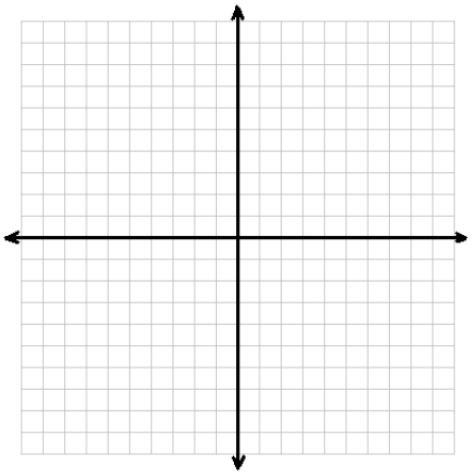
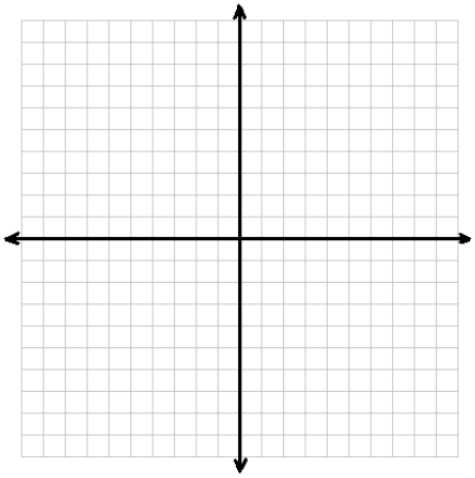
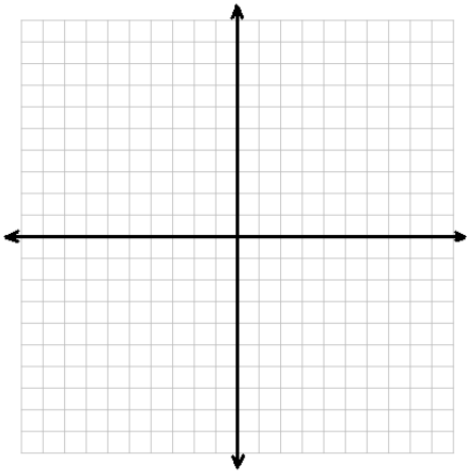
Chapter 9 Review Worksheet

Name: _____

1. $y = 3x^2 - 7$	Table	Graph
Vertex: _____ **Equation of Axis of Symmetry:** _____ **Domain:** _____ **Range:** _____	x y	

2. $y = \frac{1}{2}x^2 + 2x - 3$	Table	Graph
Vertex: _____ **Equation of Axis of Symmetry:** _____ **Domain:** _____ **Range:** _____	x y	

3. $y = -x^2 + 4x - 5$	Table	Graph
Vertex: _____ **Equation of Axis of Symmetry:** _____ **Domain:** _____ **Range:** _____	x y	

Solve each equation by finding square roots. If the equation has no real number solution, write no solution.

4. $3x^2 + 27 = 0$

5. $\frac{1}{2}x^2 - 18 = 0$

6. $4x^2 + 20 = 20$

Solve by factoring. Show your work!!

7. $x^2 + 11x - 26 = 0$

8. $x^2 - 19x + 80 = -8$

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

Solve each equation using the quadratic formula. Show your work!!! Round answers to the nearest hundredth.

10. $x^2 - 14x + 16 = 0$

11. $2x^2 - 3x = 20$

12. $-x^2 + 8x + 4 = 5$

Solve each equation using the method of your choice. Show your work!!! Round answers to the nearest hundredth if necessary.

13. $3x^2 + 7x = x^2 - 6$

14. $3x^2 = 9x$

15. $x^2 - 64 = 0$

16. $64x^2 + 12x - 1 = 0$

17. $x^2 + 4x = 1$

18. $12x^2 + 16x = 28$

Solve the system of equations.

19. $y = x^2 + 2x + 1$
$y = x + 1$

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

21. $y = x^2$
$y = x + 2$