Algebra 1 B
Solving & Graphing Quadratic Equations
Review WS

A#_____

Name _____

Date _____ Period _____

Simplify each expression.

1. $\sqrt{12}$

2. $\sqrt{48}$

3. $\sqrt{144}$

4. $2\sqrt{60}$

5. $5\sqrt{2}+3\sqrt{2}$

6. $\sqrt{12}-\sqrt{27}+4\sqrt{3}$

7. $\sqrt{50}+\sqrt{32}-\sqrt{2}$

8. $\frac{3}{\sqrt{2}}$

9. $\frac{3}{1-\sqrt{5}}$

Solve by factoring.

10. $x^2 - 49 = 0$

11. $6x^2-13x-5=0$

12. $x^3+8x^2 - x - 8=0$

Complete the following chart.

13.

Discriminant Value	Number of Roots
positive	
	1

Find the value of the discriminant and state the number and type of roots.

14. $4x^2 - 20x - 11 = 0$

15. $7x^2 - 3x = -6$

16. $25x^2 + 20x + 4 = 0$

Solve by using the quadratic formula.

17. $5x^2 = x - 12$

18. $18x^2 + 23x - 6 = 0$

19. $2x^2 - 6x + 3 = 0$

Graph the following quadratics.

20. $y = (x-1)^2 - 5$

x		y	(x,y)

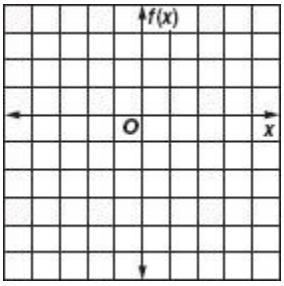
axis of symmetry _____

vertex _____

min / max (circle one)

Domain _____

Range _____



21. $y = -2x^2 + 8x - 3$

x		y	(x,y)

axis of symmetry _____

vertex _____

min / max (circle one)

Domain _____

Range _____