Secondary II-Unit 2.2 Quadratics Day 5 Homework Name_____

Quadratic Formula

Date_____ Period____

Identify *a*, *b*, and *c*. Then find the *x*-intercepts using quadratic formula.

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

2) $f(x) = 2x^2 - 9x + 2$

3) $f(x) = 4x^2 + 2x - 72$

4) $y = 10x^2 - x + 8$

5) $y = 6x^2 - 12x - 90$

6) $f(x) = 8x^2 + 8x + 7$

7) $f(x) = 5x^2 - 3x - 11$

8) $y = -5x^2 - 3x + 68$

9) $y = -2x^2 + 11x - 14$

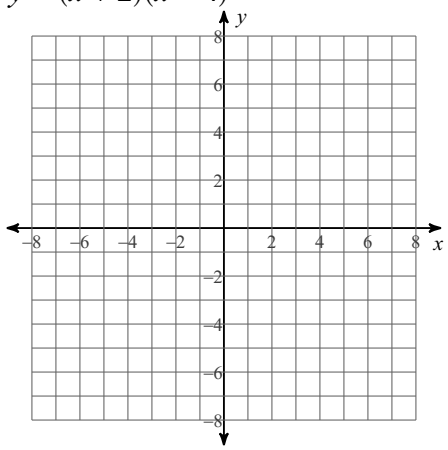
10) $y = -6x^2 + 6x + 21$

11) $y = 5x^2 + 6x - 5$

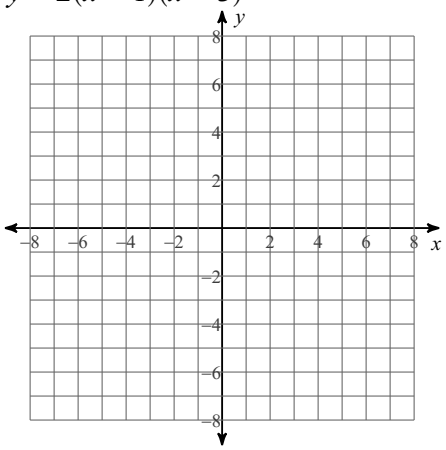
12) $f(x) = -3x^2 - 6x - 9$

Graph each quadratic equation. List all key features. *Watch the scale of your graph.

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



14) $y = 2(x - 1)(x - 3)$



Factor each completely.

15) $r^2 - 19r + 90$

16) $k^2 + 12k + 32$

17) $r^2 + 13r + 36$

18) $x^2 - 17x + 72$

19) $m^2 - 25$

20) $x^2 - 2x + 1$

21) $n^2 - 8n + 16$

22) $25b^2 - 4$