Homework 9/13

Graphing Quadratics:

If the following equation is a quadratic, write the equation in standard form.

- 1. y=7+3x-5
- 2. $10x + 2y = 8x^2 2$
- 3. $3x^2 2x = 2x^2 7$

Find the axis of symmetry, the vertex, and the y-intercept of each parabola. Graph the quadratic.

- 4. $y=x^2+2x-8$
- 5. $y = x^2 4x + 3$
- 6. $y=3x^2-4x$

Without graphing, does the graph of the given equation open up or down? Is the graph wider or narrower than the parent equation of $y=x^2$? What is the y-intercept?

- 7. $f(x) = -.6x^2 + 3x 6$
- 8. $g(x) = 1.3x^2 + 4x$

Find the zeros of the following quadratics by graphing.

- 9. $y = x^2 4x + 3$
- 10. $y = -x^2 8x 15$