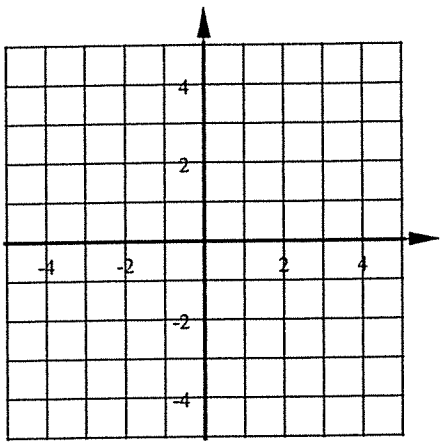
Algebra 2 Work on these after Test #1 Fall 2015 Name:

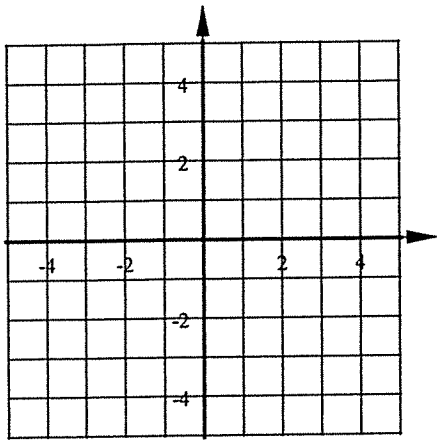
1. Graph each inequality. Remember to shade the solution region and make sure your line is correct (solid or dashed).

See Sec 2-7 for a review of how to graph linear inequalities.

a) $y < -2x + 1$



b) $4x - 6y \geq 12$



2. Solve each quadratic by factoring.

Follow these steps:

a. Factor the left side (remember to look for GCF first).

b. Find the zero of each factor (what value of x makes the factor equal to zero).

a) $2x^3 - 2x^2 - 24x = 0$

b) $20x^2 + 7x - 6 = 0$

3. Solve each system of equations. Give your answer as an ordered pair.

a)

$6x + y = 19$

$5x - 3y = -11$

b)

$-4A + 7B = 13$

$3A + 5B = 21$