Geometry
Algebra Review Week 17

Name_____ Per_____
Semester 1

<u>SHOW ALL WORK!!!</u>
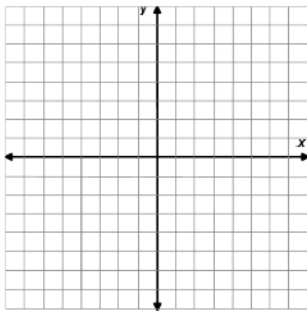
Solve the inequality:
1. $-8y + 5 \leq -43$

Multiply:
2. $(2a + 3)(a^3 - 5a^2 - 6)$

Graph the linear inequality:

3. $\frac{1}{4}x + y < 4$

Simplify.

4. $\dfrac{x^2 - 3x - 18}{9x + 18} \cdot \dfrac{x^2 + 12x + 35}{x^2 + 10x + 21}$

5. Solve the system of equations.
   $5x - 4y = -3$
   $y = -3x + 5$

6. Solve by factoring.
   $2x^2 + 8x - 90 = 0$