Algebra 1 Quiz     11.8.13
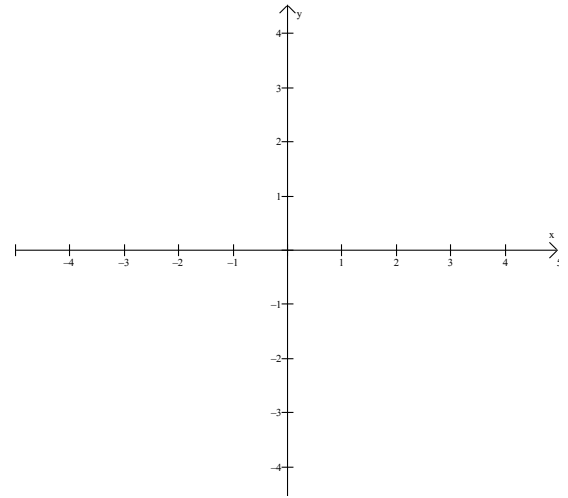
Version A

Exponent Pro_____

period_____

1) **Simplify:**    $5(-2x + 7) - 6(5x - 4)$

2) **Graph the linear inequality**

$$y < -\frac{2}{3}x + 2$$

3) **Solve the system of linear equations using** *substitution*

$$y = 2x + 7$$
$$3x - y = -9$$

4) **Simplify**        $-3x^5(x^2y^4)^3$

5) **Perimeter Question:**  A rectangle garden has a length of $3x - 3$ and a width of $x + 4$ and a perimeter of 58 feet.  What is the length and width of the garden to the nearest foot?  (Draw a picture)

**Bonus!!  Simplify**

$$\left(\frac{-6x^3y^{-5}}{2z^{-2}y}\right)^2$$