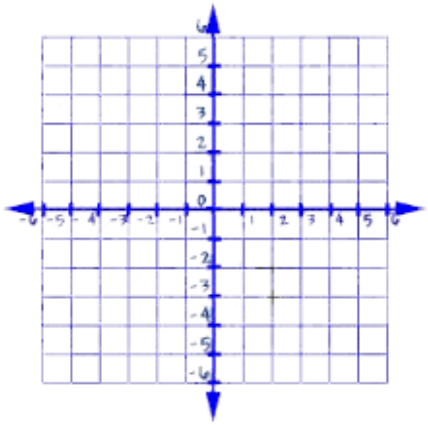
SS WS 1: Algebra Review

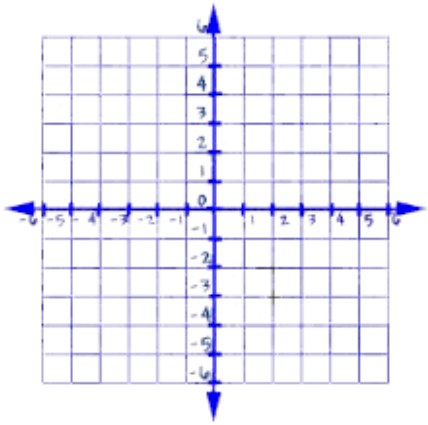
Name _____ Per. ____

Graph the following linear equations.

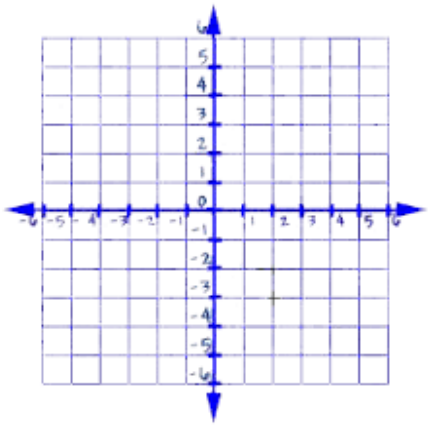
1. $y = 3x - 5$



2. $y = -2x + 4$



3. $y = \frac{1}{2}x - 3$



Use the distributive property to simplify each expression. Combine like terms when necessary and write the polynomial in standard form.

4. $2x^2 (4x - x^5 + 3)$

5. $5x (3x^3 + 6x - 2x^2)$

Combine like terms in the following expressions. Then write the polynomial in standard form.

6. $x^2 + 7x - 5x + 2x^2 - 3x$

7. $6x - 3 + 5x^3 - 4x + 7 - 4x^3 + 2x$

8. Determine which of the expressions below are equivalent (the same as) the following expression:

$x^2 - 6x + 8$

(Hint: simplify each expression below and see which ones are the same as $x^2 - 6x + 8$)

a. $(x - 4)(x - 2)$

b. $2(x^2 - 3x + 4) - x^2$

c. $x^2 + 5x - 3 - 2x^2 - 11x + 11$