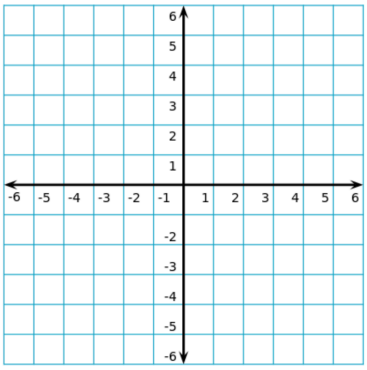
NAME_____DATE_____PERIOD_____

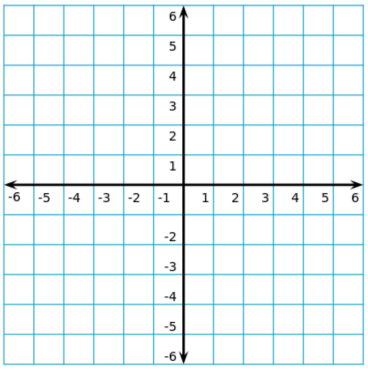
Homework Week of Jan. 6

Graph the linear function.

1.) $f(x) = -\frac{1}{4}x + 3$



2.) $f(x) = 6x - 5$



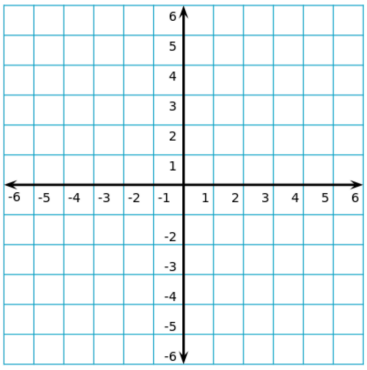
Solve each inequality.

3.) $3(w + 9) \leq -27$

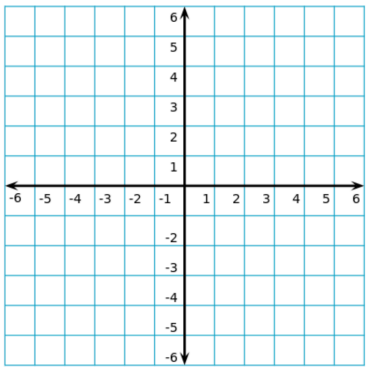
4.) $-4(d + 1) < -12$

Graph the absolute value functions.

5.) $f(x) = -2|x + 3| - 4$



6.) $f(x) = \frac{2}{3}|x - 1| - 3$



NAME_____DATE_____PERIOD_____

Solve.

7.) If you are solving a system of equations and both equations are exactly the same, how many solutions will you have?

$$-4x + 5y = 25$$
$$-4x + 5y = 25$$

8.) If you are solving a system and both variables are exactly the same but the constants are different, how many solutions will you get?

$$2x - 8y = -24$$
$$2x - 8y = 6$$

9.) Write a system of linear equations that will have no solution.

10.) Write a system of linear equations that will have infinitely many solutions.

Solve.

11.) $5x + y = 9$
$10x - 7y = -18$

12.) $8x + 14y = 4$
$-6x - 7y = -10$

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