

5-10-18

Aim: SWBAT do their best on the quizzes.

HW: WS

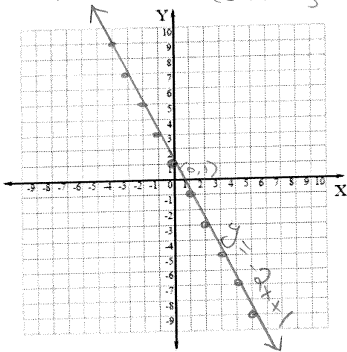
Quiz Tuesday

Do Now: Pencil, ruler, & calculator

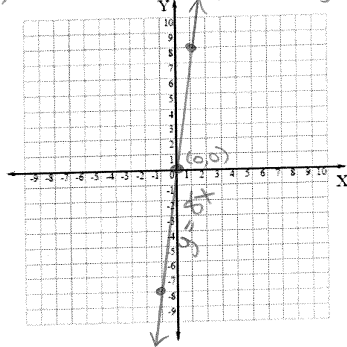
Homework (Pg. 601 # 10, 12 - 14, 16, 18, 23 - 25, 26 - 28, 37 - 39)

Graph the linear equation.

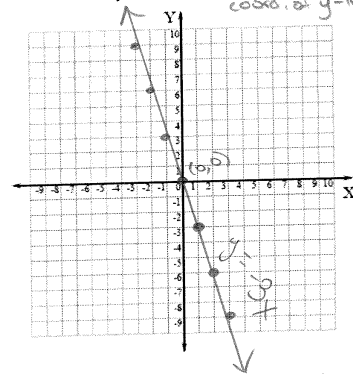
10. $y = -2x + 1$
 $m = -2$
 $b = 1$
 coord. of y-int $(0, 1)$



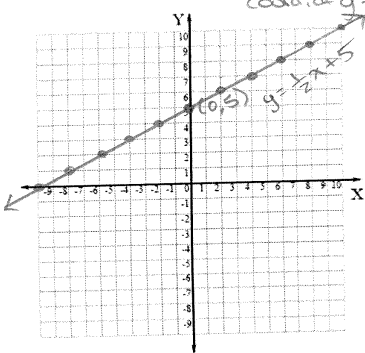
12. $y = 8x$
 $m = 8$
 $b = 0$
 coord. of y-int $(0, 0)$



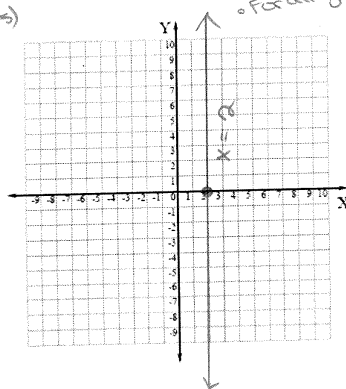
13. $y = -3x$
 $m = -3$
 $b = 0$
 coord. of y-int $(0, 0)$



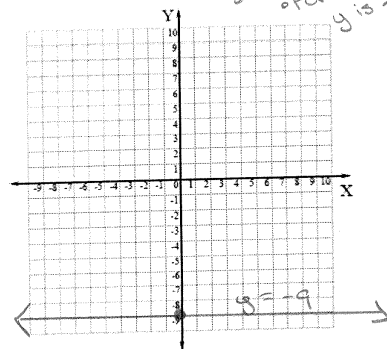
14. $y = \frac{1}{2}x + 5$
 $m = \frac{1}{2}$
 $b = 5$
 coord. of y-int $(0, 5)$



16. $x = 2$
 • Vertical line at $x = 2$
 • For all y values, x is 2.



18. $y = -9$
 • Horizontal line at $y = -9$.
 • For all values of x , y is -9 .



Solve the linear equation for y and then graph.

23. $16x - 4y = 8$

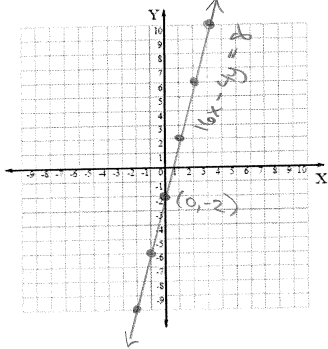
$$\begin{array}{r} -16x \quad -16x \\ \hline -4y = -16x + 8 \\ -4 \quad -4 \end{array}$$

$$y = 4x - 2$$

$$m = 4$$

$$b = -2$$

coord. of y-int (0, -2)



24. $9x + 3y = 18$

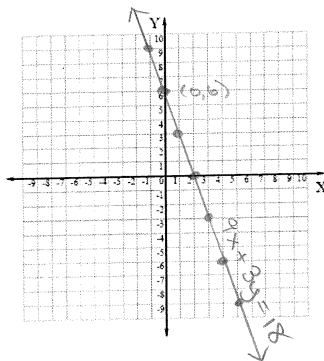
$$\begin{array}{r} -9x \quad -9x \\ \hline 3y = -9x + 18 \\ 3 \quad 3 \end{array}$$

$$y = -3x + 6$$

$$m = -3$$

$$b = 6$$

coord. of y-int (0, 6)



25. $10x = -2y$

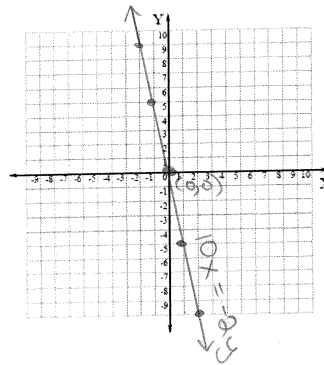
$$\begin{array}{r} -2 \quad -2 \\ \hline -5x = y \end{array}$$

$$y = -5x$$

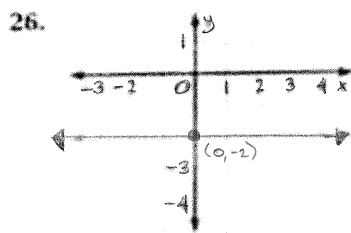
$$m = -5$$

$$b = 0$$

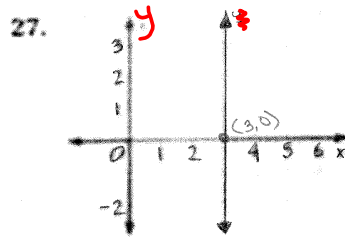
coord. of y-int (0, 0)



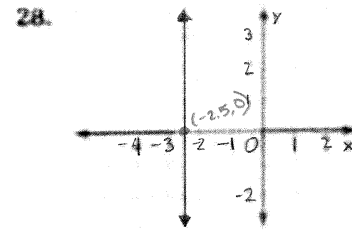
Write the equation of the line.



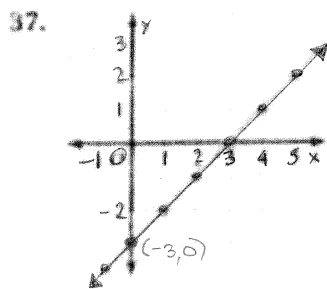
Horizontal line \rightarrow $y = -2$



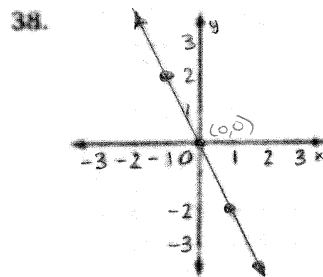
Vertical line \rightarrow $x = 3$



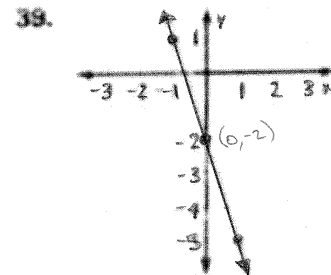
Vertical line \rightarrow $x = -2.5$



coord. of y-int $(0, -3)$
 $b = -3$
 $m = \frac{1}{1} = 1$
 $y = x - 3$



coord. of y-int $(0, 0)$
 $b = 0$
 $m = \frac{-2}{1} = -2$
 $y = -2x$



coord. of y-int $(0, -2)$
 $b = -2$
 $m = \frac{-3}{1} = -3$
 $y = -3x - 2$

Each slope or y-intercept can be matched with exactly one lettered equation.
Write the appropriate letters in the blanks to find what kind of show is being advertised.



$$\overline{m = \frac{3}{2}} \quad \overline{b = -6} \quad \overline{m = -1} \quad \overline{m = 3} \quad \overline{b = 1} \quad \overline{m = -4} \quad \overline{b = 10} \quad \overline{m = 1} \quad \overline{b = -18} \quad \overline{b = 2} \quad \overline{m = -\frac{1}{3}}$$

E. $y = 2x + 1$	L. $2x - y = 6$	P. $4y = 6x - 20$	S. $2x + 4y = 12$
U. $y = \frac{1}{3}x + 2$	N. $2y = 6x - 14$	A. $2x + 2y = 20$	O. $y = 5x + 9$
T. $4x + y = 20$	I. $6x - y = 18$	R. $5x - 5y = 40$	M. $x + 3y = 18$