

Identify the slope and y-intercept of the line with the given equation.

1. $y = 2x + 1$

$m = 2$

$b = 1$

2. $y = 6 - 3x$

$m = -3$

$b = 6$

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

$m = \frac{2}{3}$

$b = -1$

4. **MULTIPLE CHOICE** What is the slope of the line with the equation $y = -18x - 9$? **A**

A) -18

B) -9

C) 9

D) 18

E) $\frac{18}{9}$

Rewrite the equation in slope-intercept form. Then identify the slope and the y-intercept of the line.

5. $4x + y = 1$

$-4x$ $-4x$

$y = 1 - 4x$

$m = -4$

$b = 1$

6. $6x - 3y = -9$

$-6x$ $-6x$

$-3y = \frac{-9}{-3} - \frac{6x}{-3}$

$y = -3 + 2x$

$m = 2$
 $b = -3$

7. $2x + 5y = -10$

$-2x$ $-2x$

$\frac{5y}{5} = \frac{-10}{5} - \frac{2x}{5}$

$y = -2 - \frac{2}{5}x$

$m = -\frac{2}{5}$

$b = -2$

Match the equation with its graph.

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

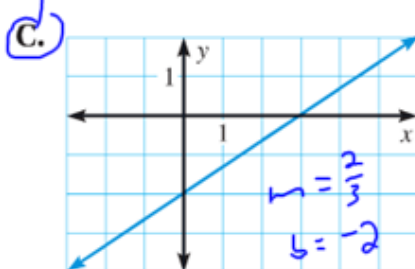
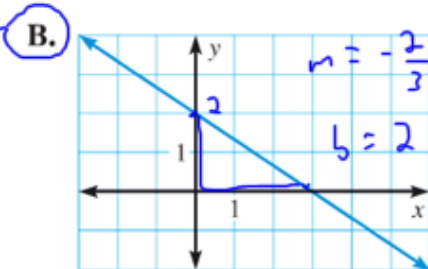
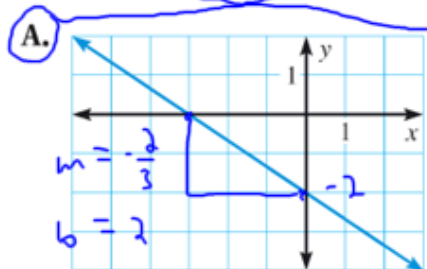
$m = -\frac{2}{3}$
 $b = 2$

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

$m = -\frac{2}{3}$
 $b = -2$

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

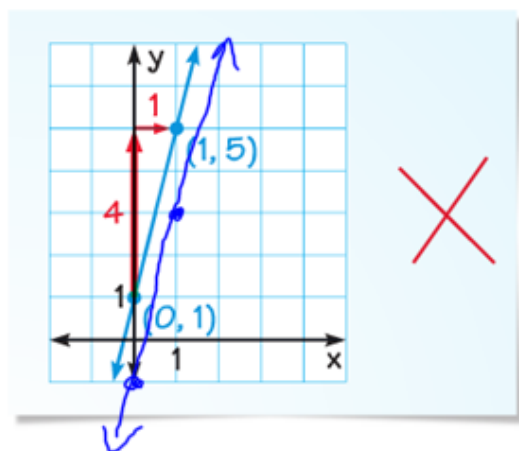
$m = \frac{2}{3}$
 $b = -2$

11. **ERROR ANALYSIS** Describe and correct the error in graphing the equation $y = 4x - 1$.

$m = 4$

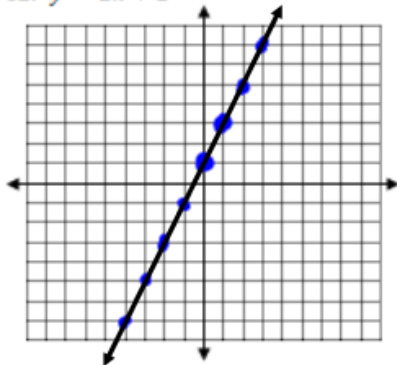
$b = -1$

They put the y-intercept at positive 1 when really it is negative 1.

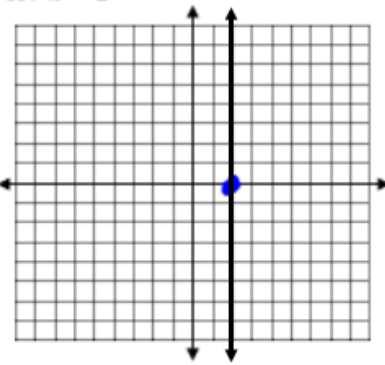


Graph the equations. Plot as many points on the graph that will fit!

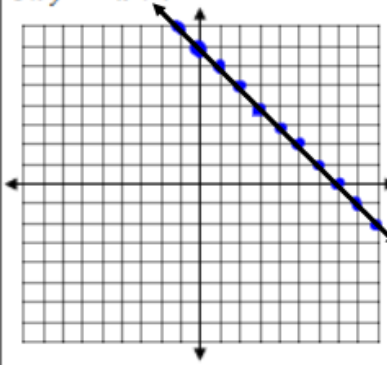
12. $y = 2x + 1$



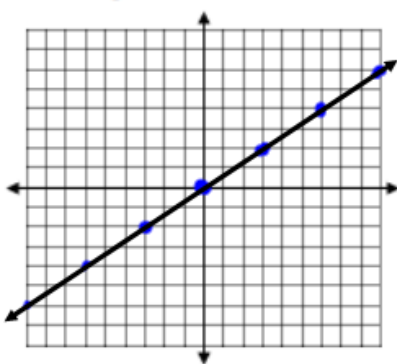
13. $x = 2$



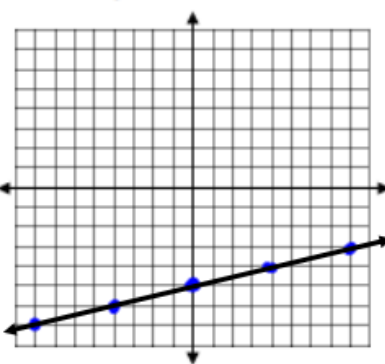
14. $y = -x + 7$



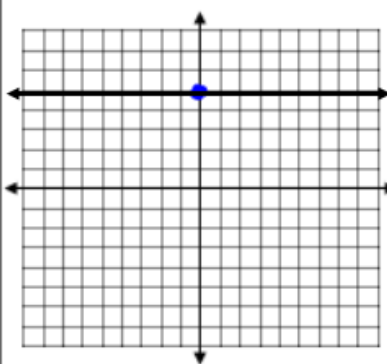
15. $y = \frac{2}{3}x + 0$



16. $y = \frac{1}{4}x - 5$



17. $y = 5$



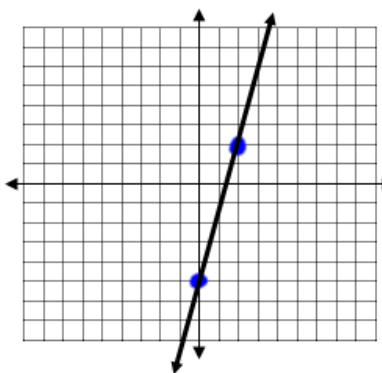
Solve for y and then graph!

18. $7x - 2y = 10$

$$\begin{array}{r} -7x \\ -7x \end{array}$$

$$\frac{-2y = 10 - 7x}{-2} \quad \frac{-7x}{-2}$$

$$y = -5 + \frac{7}{2}x$$



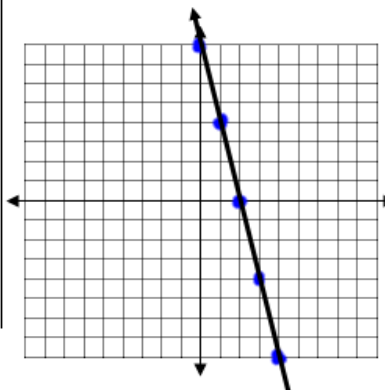
Solve for y and then graph!

19. $8x + 2y = 16$

$$\begin{array}{r} -8x \\ -8x \end{array}$$

$$\frac{2y = 16 - 8x}{2} \quad \frac{-8x}{2}$$

$$y = 8 - 4x$$



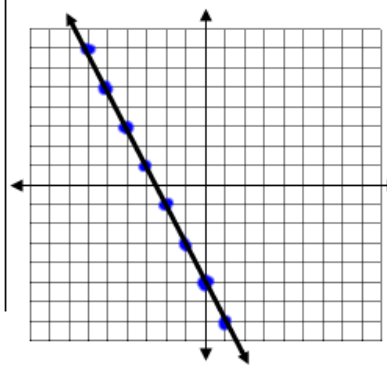
Solve for y and then graph!

20. $-2x - y = 5$

$$\begin{array}{r} +2x \\ +2x \end{array}$$

$$\frac{-y = 5 + 2x}{-1} \quad \frac{+2x}{-1}$$

$$y = -5 - 2x$$

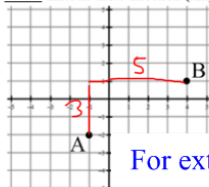


SKILLZ REVIEW

GRAPH

1. Describe how to move from point A to point B.

3 units in the y direction (rise)
5 units in the x direction (run)



2. Describe how to move from point C(0,3) to point D(2,-3).

SIMPLIFY

3. $5(2x+1) - 6$

$$10x + 5 - 6$$

$$10x - 1$$

4. $x - 5(2x - 4)$

SOLVE

5. $6 + \frac{2}{3}x = 8$

$$\begin{array}{r} 16 \\ 16 \end{array}$$

$$\left(\frac{2}{3}\right) \frac{2}{3}x + 2\left(\frac{3}{2}\right)$$

$$x = \frac{6}{2} = 3$$

6. $x + 5 = 8x - 6$

For extra help, check the Skillz Review video!