

Example 3:

Graph an equation.

Example 4:

Graph horizontal & vertical lines.

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Example 1:

Determine whether an ordered pair lies on the graph of a line.

Example 2:

Solve an equation for y .

Example 1:

Determine which ordered pair lies on the graph of the line $7x - y = 10$.

a) $(2, 4)$

b) $(2, -4)$

Example 2:

Solve the equations for y .

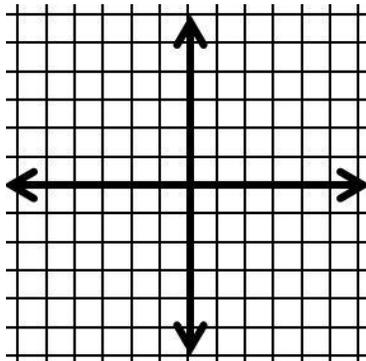
a) $-9x + 3y = 15$

b) $5x - 10y = 20$

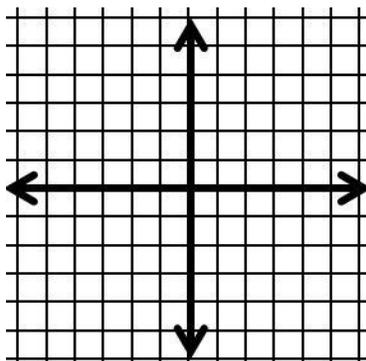
c) $2x + \frac{1}{3}y = 4$

Example 3:

a) Graph the equation $3x - y = 1$.

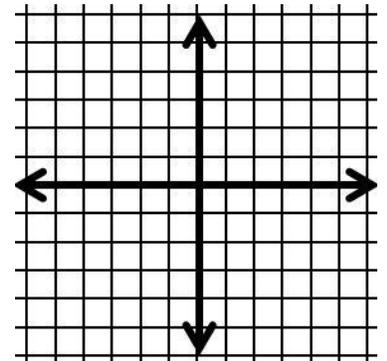


b) Graph the equation $8x - 4y = -4$.

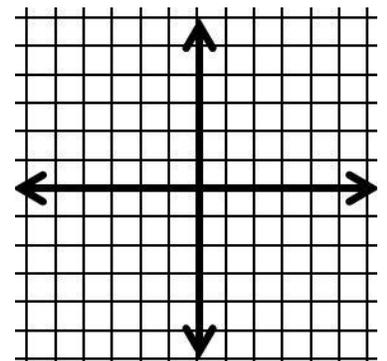


Example 4:

a) Graph $y = 3$.



b) Graph $x = -4$.



Example 3:

Graph an equation.

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Graph horizontal & vertical lines.

Answer Key!

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Example 1:

Determine whether an ordered pair lies on the graph of a line.

Example 2:

Solve an equation for y .

Example 1:

Determine which ordered pair lies on the graph of the line $7x - y = 10$.

c) (2, 4)

↑↑
(x,y)

$$\begin{aligned} 7x - y &= 10 \\ 7(2) - 4 &= 10 \\ 14 - 4 &= 10 \\ 10 &= 10 \end{aligned}$$

YES, this point lies on the graph of the line $7x - y = 10$.

d) (2, -4)

↑↑
(x,y)

$$\begin{aligned} 7x - y &= 10 \\ 7(2) - (-4) &= 10 \\ 14 + 4 &= 10 \\ 18 &= 10 \end{aligned}$$

NO, this point does not lie on the graph of the line $7x - y = 10$.

Example 2:

Solve the equations for y.

a) $-9x + 3y = 15$

$$\begin{aligned} -9x + 3y &= 15 \\ +9x & \quad +9x \\ \hline 3y &= 9x + 15 \\ \frac{3y}{3} &= \frac{9x}{3} + \frac{15}{3} \\ y &= 3x + 5 \end{aligned}$$

b) $5x - 10y = 15$

$$\begin{aligned} 5x - 10y &= 15 \\ -5x & \quad -5x \\ \hline -10y &= -5x + 15 \\ \frac{-10y}{-10} &= \frac{-5x}{-10} + \frac{15}{-10} \\ y &= \frac{1}{2}x - 2 \end{aligned}$$

c) $2x + \frac{1}{3}y = 4$

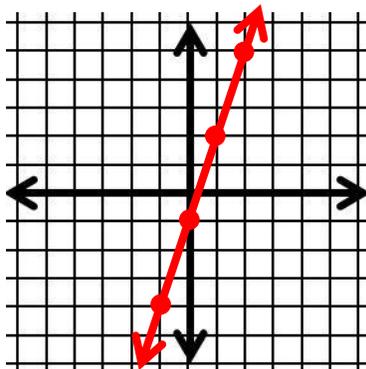
$$\begin{aligned} 2x + \frac{1}{3}y &= 4 \\ -2x & \quad -2x \\ \hline 3 \cdot \frac{1}{3}y &= (-2x + 4) \cdot 3 \\ y &= -6x + 12 \end{aligned}$$

Example 3:

a) Graph the equation $3x - y = 1$.

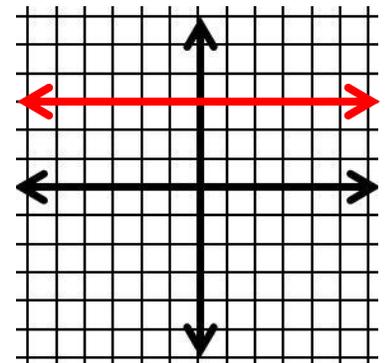
Rewrite as $y = 3x - 1$

x	y
-2	-7
-1	-4
0	-1
1	2
2	5



Example 4:

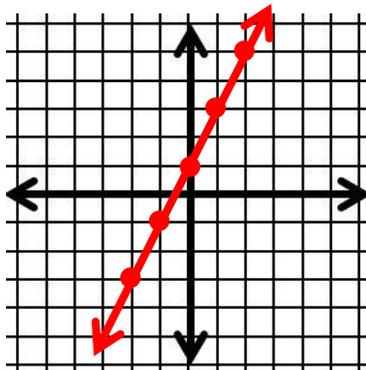
a) Graph $y = 3$.



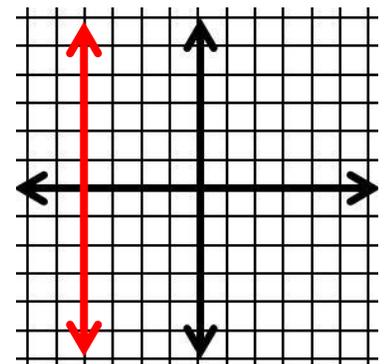
b) Graph the equation $8x - 4y = -4$.

Rewrite as $y = 2x + 1$

x	y
-2	-3
-1	-1
0	1
1	3
2	5



b) Graph $x = -4$.



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Directions:

Print pages 1 & 2 so that the text is facing in opposite directions (my printer has the option to print front to back & flip pages on the short edge).

Fold the top and bottom in to the solid line at the center. Cut along the dotted lines to create the four tabs.

NOTE: If the pages don't line up properly try using a different printer. I have the best luck printing on my personal printer. Sometimes if I print the pages at school, the printer alters the margins and the lines don't end up matching up like they are supposed to!

The final product should look like this:

