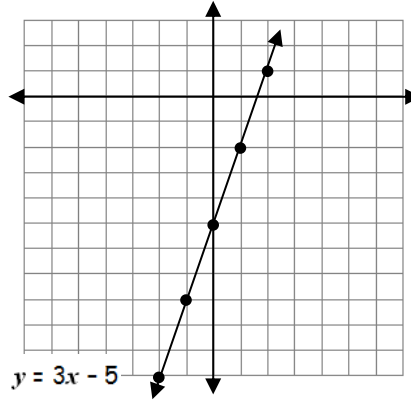


For each Linear Function below, create a table of values and graph.

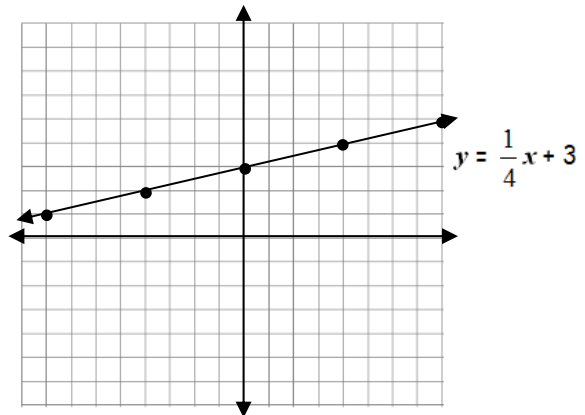
1. $y = 3x - 5$

x	y
-2	-11
-1	-8
0	-5
1	-2
2	1



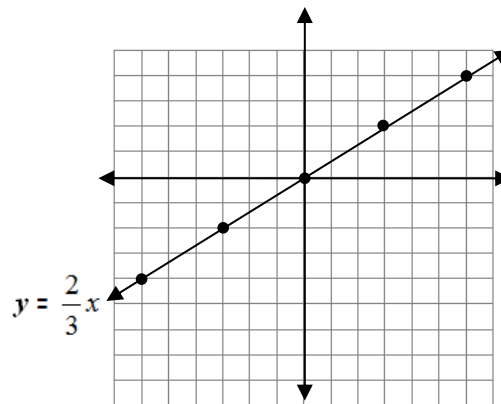
2. $y = \frac{1}{4}x + 3$

x	y
-8	1
-4	2
0	3
4	4
8	5



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

x	y
-6	-4
-3	-2
0	0
3	2
6	4



Determine if each ordered pair is a solution to the equation.

7. $y = 14x - 20$ $(-15, -190)$

$$\begin{aligned} -190 &= 14(-15) - 20 \\ -190 &= -210 - 20 \\ -190 &\neq -230 \\ \text{Not a solution} \end{aligned}$$

8. $y = \frac{3}{8}x + 10$ $(120, 55)$

$$\begin{aligned} 55 &= \frac{3}{8}(120) + 10 \\ 55 &= 45 + 10 \\ 55 &= 55 \\ \text{Yes, a solution} \end{aligned}$$

Rewrite each equation in $y = mx + b$ form.

9. $-2x + y = -4$
 $y = 2x - 4$

10. $3x - y = 1$
 $-y = -3x + 1$
 $y = 3x - 1$

11. $-9x + 3y = -6$
 $3y = 9x - 6$
 $y = 3x - 2$

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

13. $-4 + 2y = -3x$
 $2y = -3x + 4$
 $y = -\frac{3}{2}x + 2$

14. $x - 5y = 10$
 $-5y = -x + 10$
 $y = \frac{1}{5}x - 2$

Find the x -intercept of the graph of the equation. Show all work.

15. $x - y = 6$
 $x - 0 = 6$
 $x = 6$

16. $6x + 12y = 36$
 $6x + 12(0) = 36$
 $6x = 36$
 $x = 6$

Find the y -intercept of the graph of the equation. Show all work.

17. $y = -3x - 4$
 $y = -3(0) - 4$
 $y = -4$

18. $5x - 10y = -40$
 $5(0) - 10y = -40$
 $-10y = -40$
 $y = 4$

Find the x-intercept and y-intercept of the line and then graph the equation.

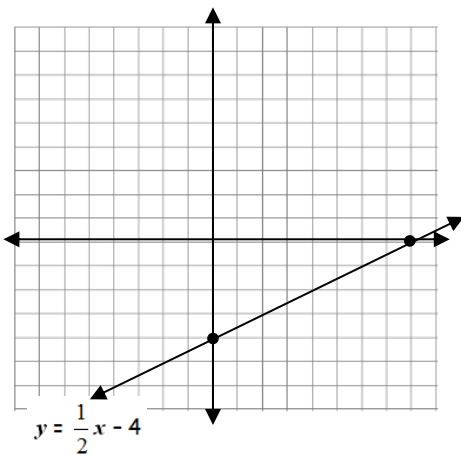
4. $y = \frac{1}{2}x - 4$

x-int:

$$\begin{aligned} 0 &= \frac{1}{2}x - 4 \\ 4 &= \frac{1}{2}x \\ 8 &= x \end{aligned}$$

y-int:

$$\begin{aligned} y &= \frac{1}{2}(0) - 4 \\ y &= -4 \end{aligned}$$



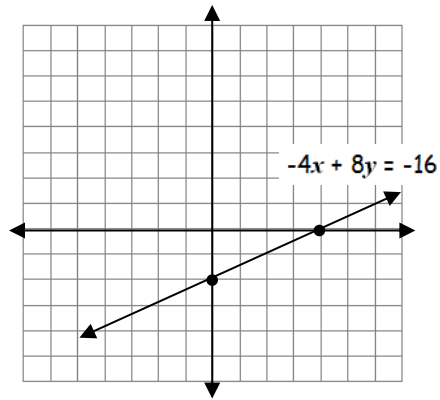
5. $-4x + 8y = -16$

x-int:

$$\begin{aligned} -4x + 8(0) &= -16 \\ -4x &= -16 \\ x &= 4 \end{aligned}$$

y-int:

$$\begin{aligned} -4(0) + 8y &= -16 \\ 8y &= -16 \\ y &= -2 \end{aligned}$$



6. $0.3x - 1.3y = 3.9$

x-int:

$$\begin{aligned} 0.3x - 1.3(0) &= 3.9 \\ 0.3x &= 3.9 \\ x &= 13 \end{aligned}$$

y-int:

$$\begin{aligned} 0.3(0) - 1.3y &= 3.9 \\ -1.3y &= 3.9 \\ y &= -3 \end{aligned}$$

