

3.1 Review of Graphing Lines

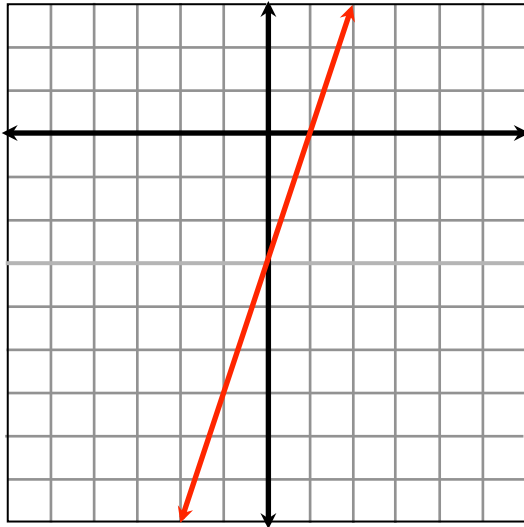
Solutions

Solve for y , then complete a table of values and use them to graph the following equations.

1.
$$6x - 2y = 6$$

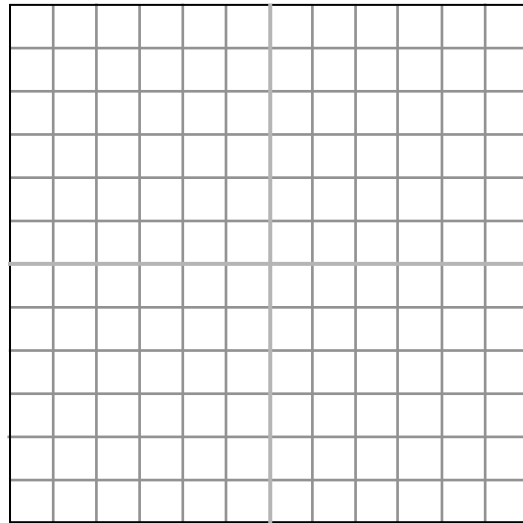
$$\begin{aligned} -2y &= -6x + 6 \\ \frac{-2y}{-2} &= \frac{-6x + 6}{-2} \\ y &= 3x - 3 \end{aligned}$$

x	y
-2	-9
-1	-6
0	-3
1	0
2	3

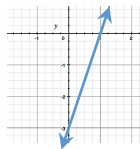


2.
$$6x + 2y = 6$$

x	y



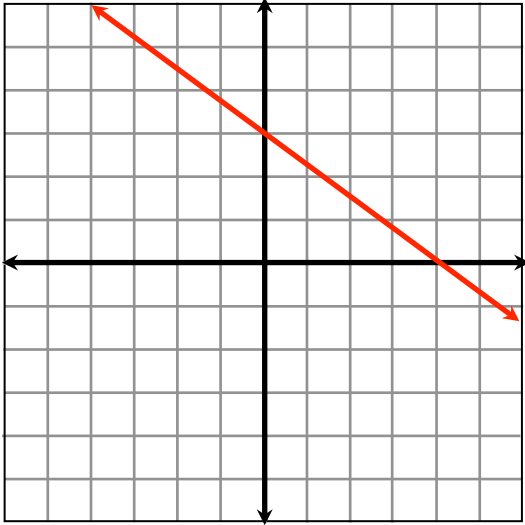
Answer: 1.



Find the x -intercept and the y -intercept and use them to graph each equation.

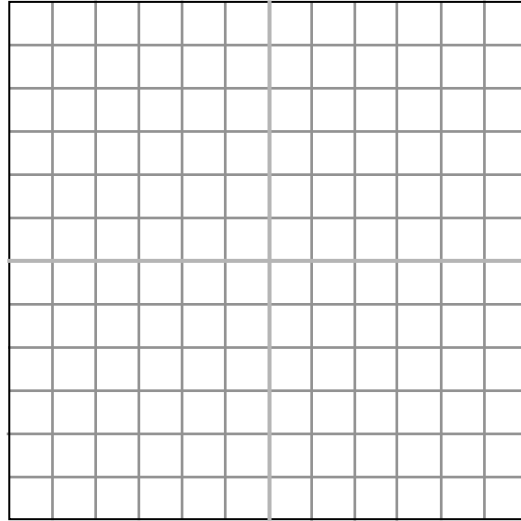
3. $3x + 4y = 12$

	x	y
x -intercept	4	0
y -intercept	0	3



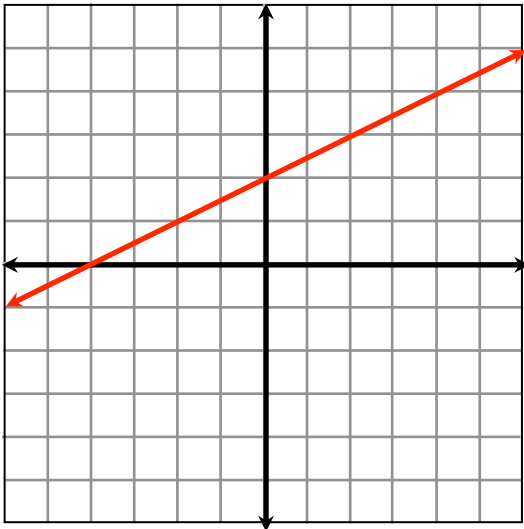
4. $5x - y = 10$

	x	y
x -intercept		0
y -intercept	0	



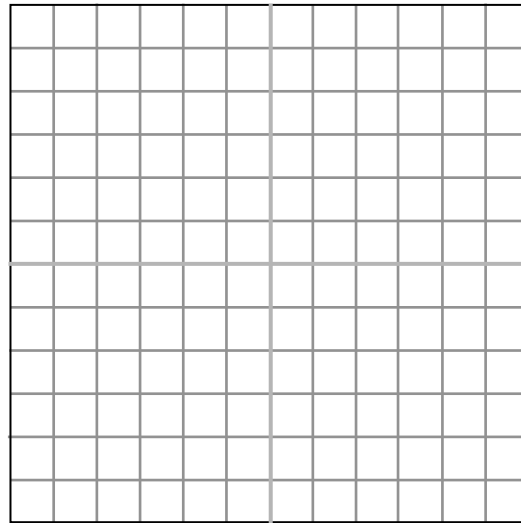
5. $-2x + 4y = 8$

	x	y
x -intercept	-4	0
y -intercept	0	2

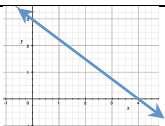


6. $-4x + 10y = 20$

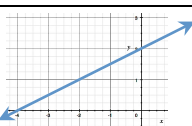
	x	y
x -intercept		0
y -intercept	0	



Answers: 3.



5.

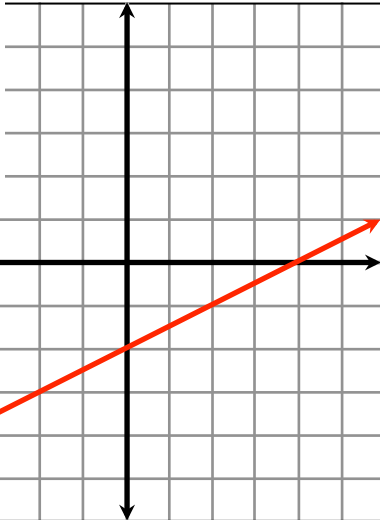


Complete a table of values for each equation and graph the equations.

7.

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

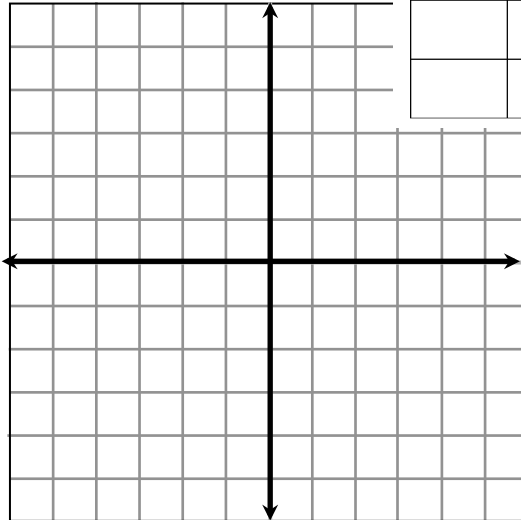
x	y
-4	-4
-2	-3
0	-2
2	-1
4	0



8.

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

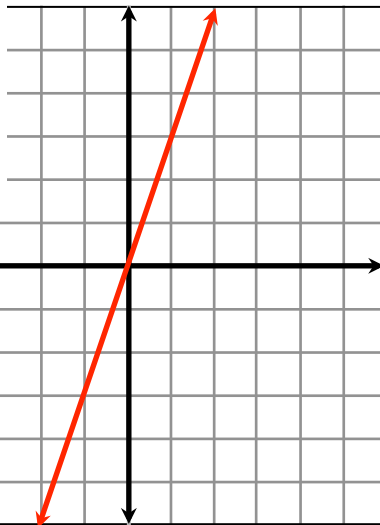
x	y



9.

$$y = 3x$$

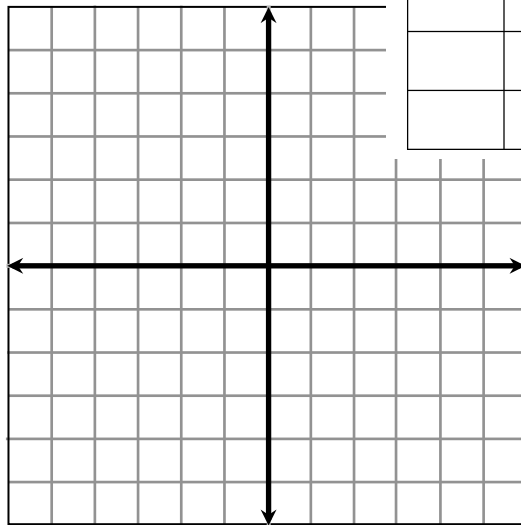
x	y
-2	-6
-1	-3
0	0
1	3
2	6



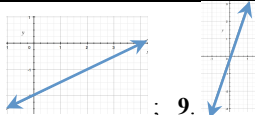
10.

$$y = -\frac{3}{4}x$$

x	y



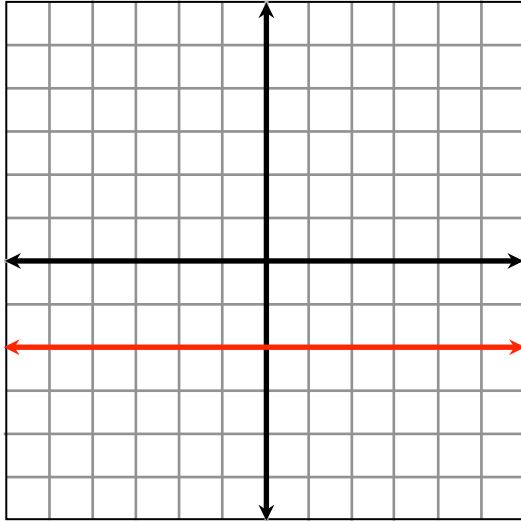
Answers: 7.



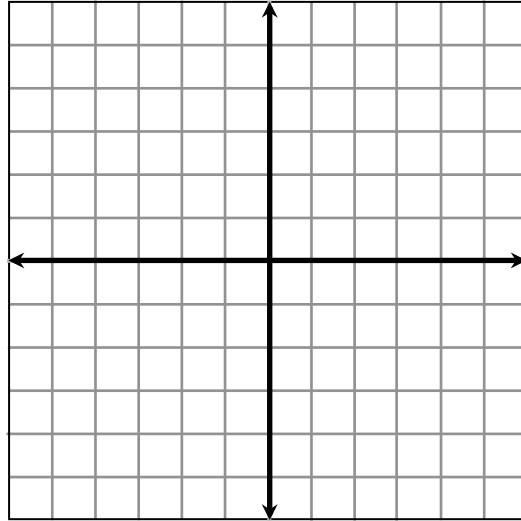
; 9.

Graph by any method.

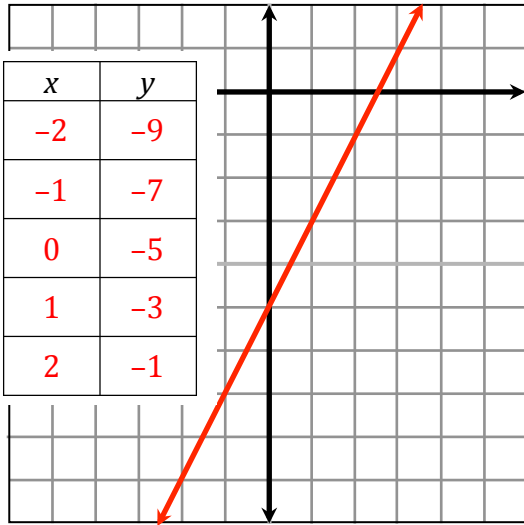
11. $y = -2$



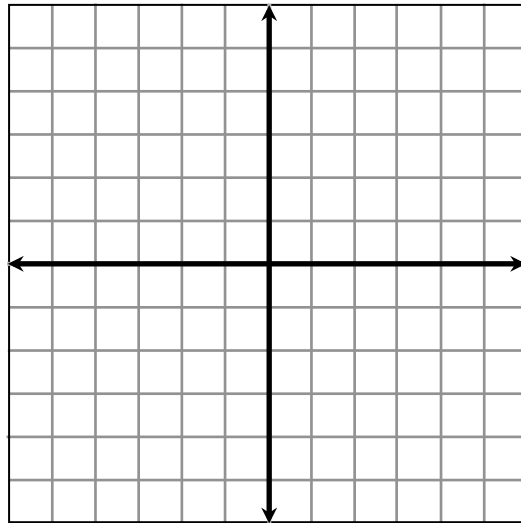
12. $x = 1$



13. $2x - y = 5$
 $\quad \underline{-2x} \quad \quad \underline{-2x}$
 $\quad \quad -y = -2x + 5$
 $(-1)(-y) = -1(-2x + 5)$
 $\quad \quad \quad y = 2x - 5$



14. $x + 2y = 4$

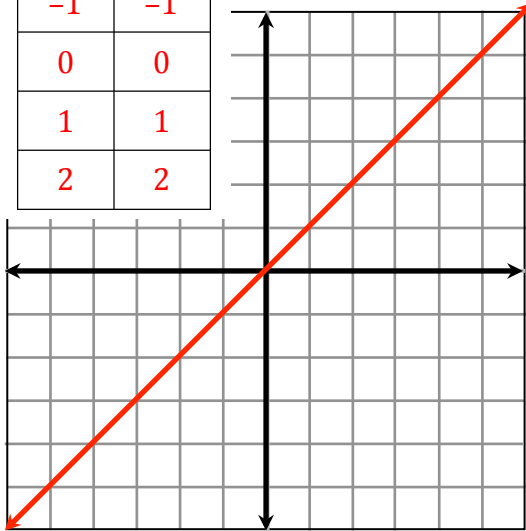


Answers: 11.  ; 13. 

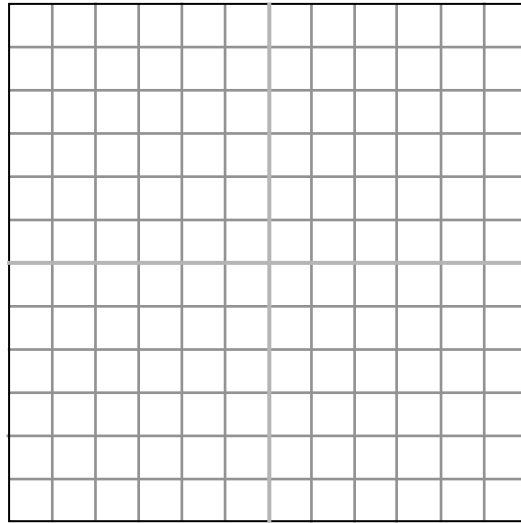
Graph by any method.

15. $x = y$

x	y
-2	-2
-1	-1
0	0
1	1
2	2

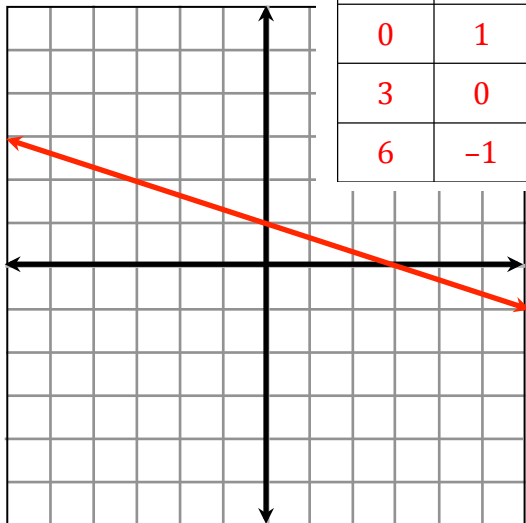


16. $x + 1 = y$

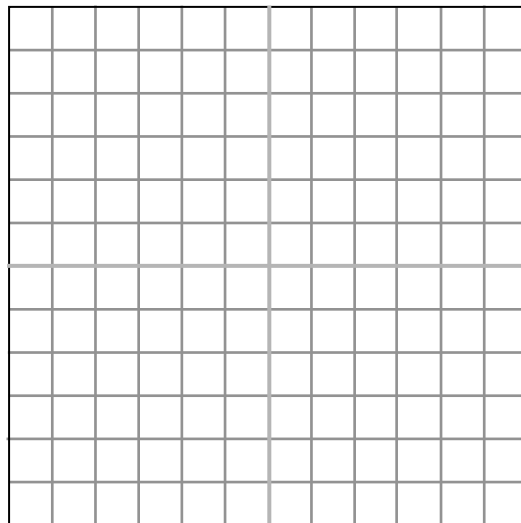


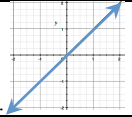
17. $y = -\frac{1}{3}x + 1$

x	y
-6	3
-3	2
0	1
3	0
6	-1



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



Answers: 15.  ; 17. 