

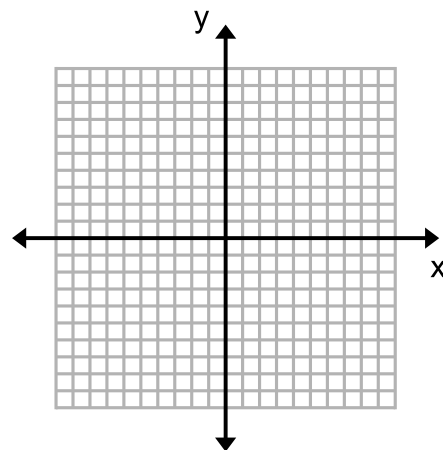
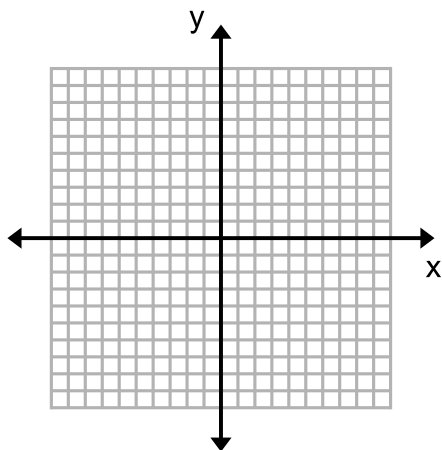
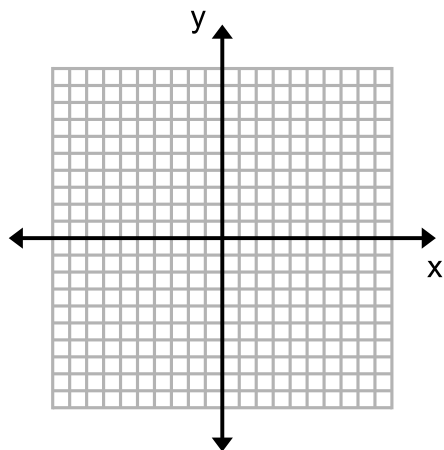
7-1 HW – Solving Systems of Equations by Graphing

Instructions: Graph the following and tell the coordinates of where they intersect.

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

2. $y = \frac{3}{4}x - 6$
 $y = -\frac{3}{2}x + 3$

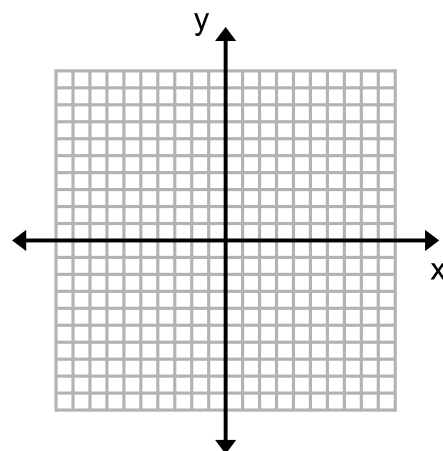
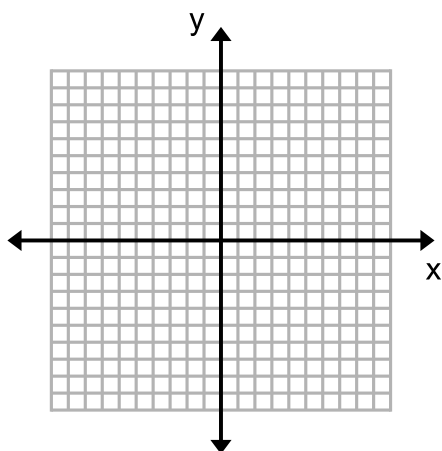
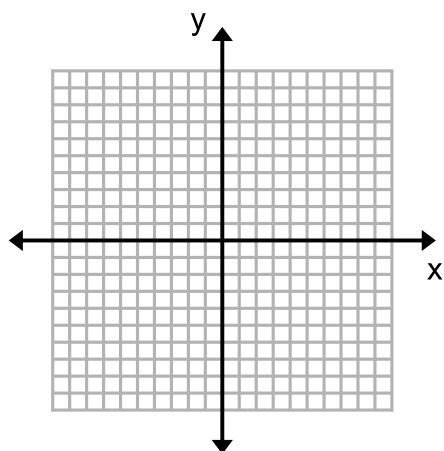
3. $y = \frac{3}{2}x - 6$
 $y = -4x + 5$



4. $y = 3x - 2$
 $y = 3x + 4$

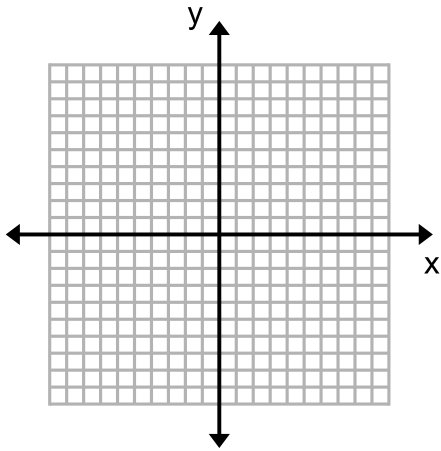
5. $3x - 2y = 8$
 $y = -2x + 3$

6. $y = -\frac{1}{2}x + 3$
 $2x + 4y = 12$

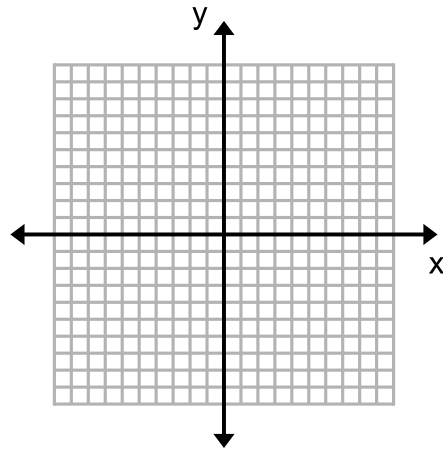


Instructions: Graph the following and tell the coordinates of where they intersect.

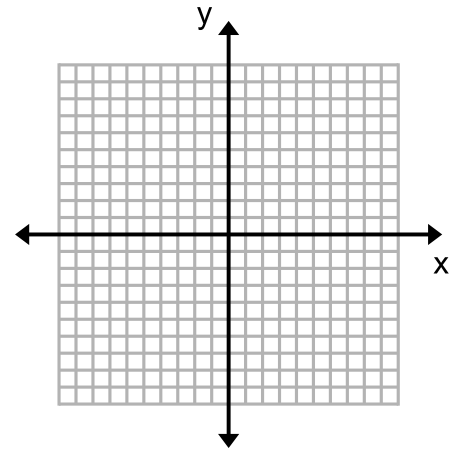
7. $x - y = 2$
 $x + y = 6$



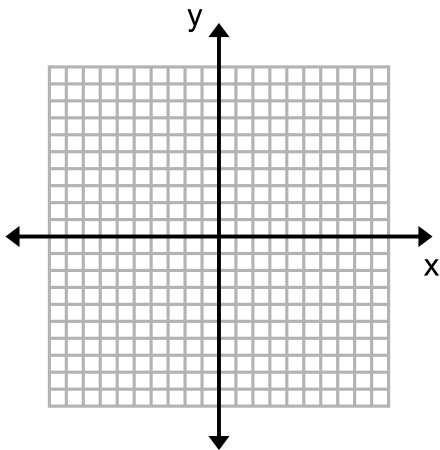
8. $x - y = 3$
 $x + y = -1$



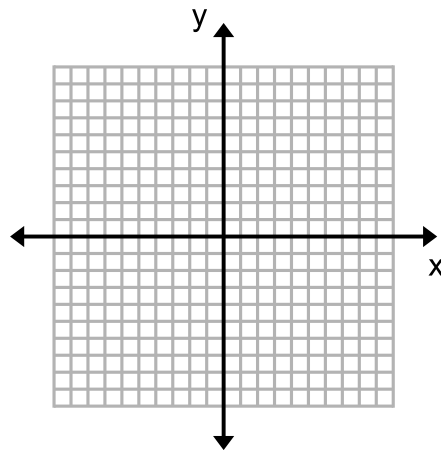
9. $x + y = 4$
 $y - x = 4$



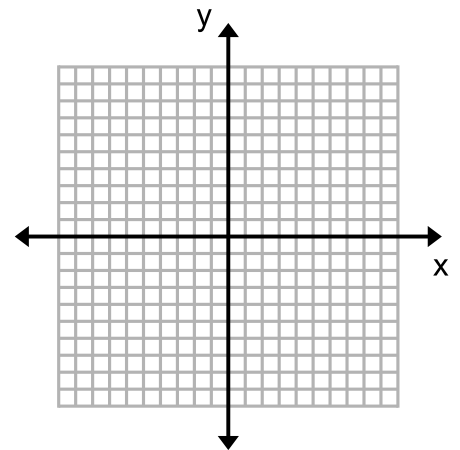
10. $y = \left(\frac{1}{3}\right)^x$
 $y = x + 4$



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



12. $y = 8\left(\frac{1}{2}\right)^x$
 $y = 3x + 1$



Review Questions:

For the following **Linear Functions**:

- Write the recursive equation
- Write the explicit
- Answer the question provided

13.

x	$f(x)$
5	-10
6	-16
7	-22

a)

b)

c) Find $f(12)$

14.

x	$f(x)$
-4	21
-1	33
0	37

a)

b)

c) Find x when $f(x) = 57$

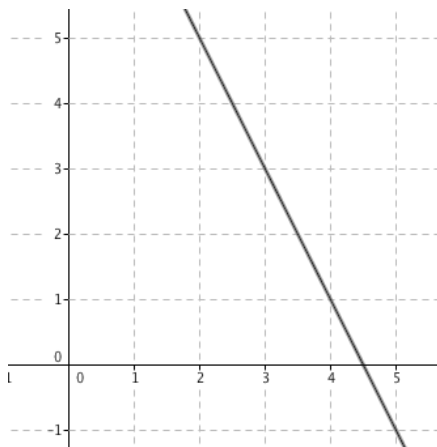
15. When it passes through the points $(9, 2)$ and $(11, 6)$

a)

b)

c) Find $f(-5)$

16.



a)

b)

c) Find the y -intercept

For the following **Linear Functions**:

- a) Write the recursive equation
- b) Write the explicit
- c) Answer the question provided

17. Has a slope of **-6** and a y -intercept of **-2**.

- a)
- b)
- c) Find x when $f(x) = 0$

18.

x	$f(x)$
20	2
25	3
30	5

- a)
- b)
- c) Find x when $f(x) = 9$