

Graph the system below by filling in the table for each equation. Plot the x and y coordinates.

$$\begin{cases} 2y - 4x = 2 \\ 6x - 9y = 27 \end{cases}$$

STEP 1 : SOLVE FOR Y  
( $y = mx + b$ )

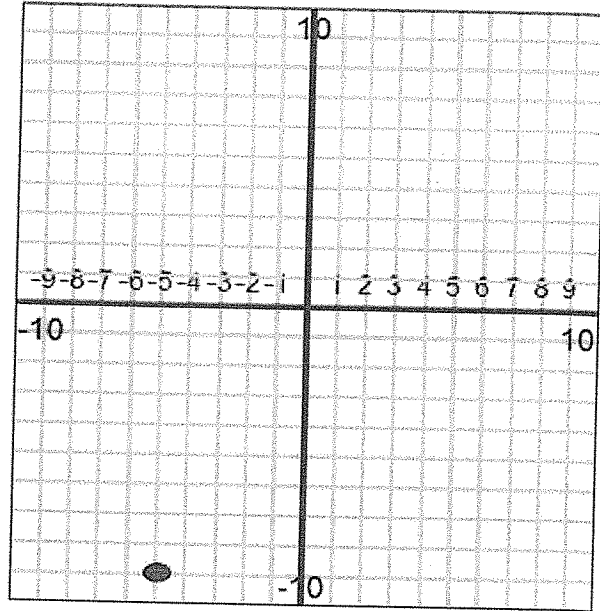
STEP 2 : GRAPH EACH LINE

STEP 3 : FIND THE INTERSECTION.

$2y - 4x = 2$

x	y
-5	-9
-1	
0	
3	

STEP 2  
GRAPH



$6x - 9y = 27$

x	y
-9	
-6	
0	
3	

STEP 1 : REWRITE/SOLVE FOR Y.

Solution to the system:

STEP 3

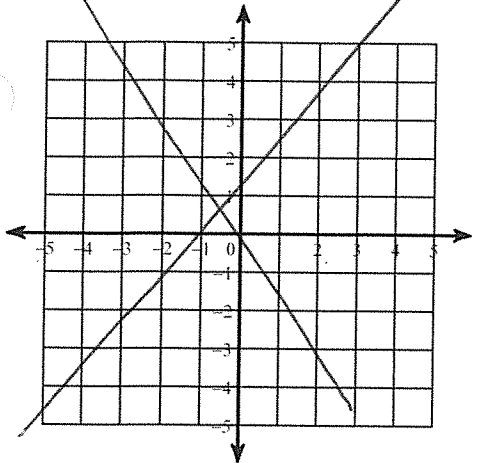
$2y - 4x = 2$

$6x - 9y = 27$

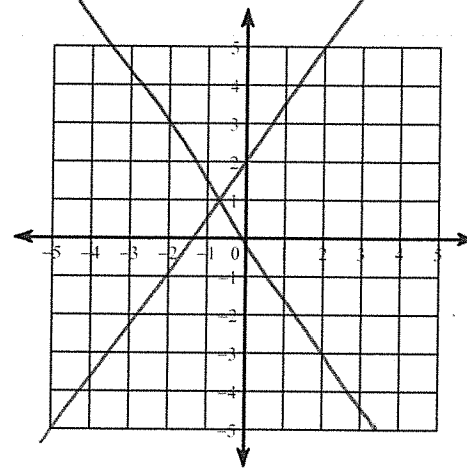
INTERSECTION

9)  $y = -\frac{1}{2}x + 4$

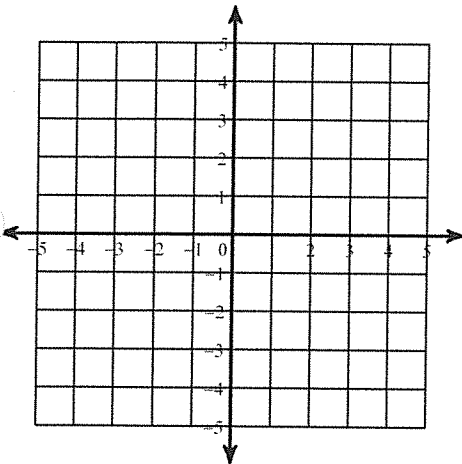
$y = \frac{3}{2}x - 2$



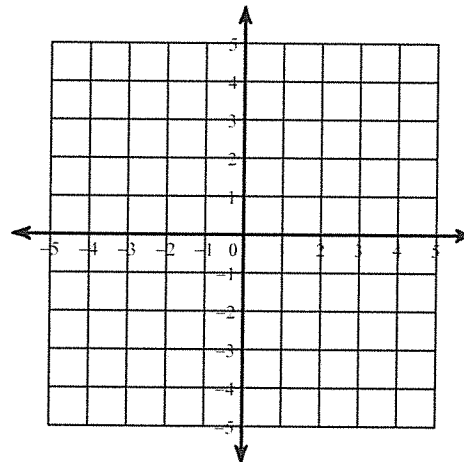
10)  $y = \frac{1}{4}x + 3$



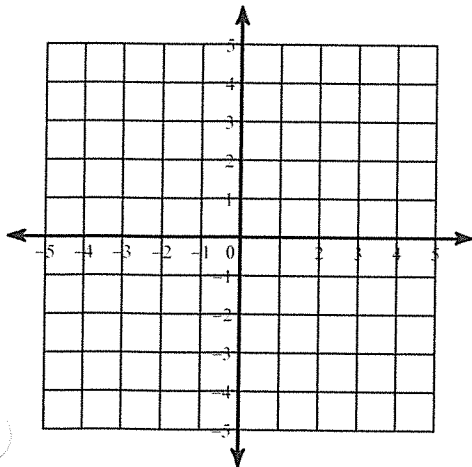
11)  $5x + y = 4$   
 $x - y = 2$



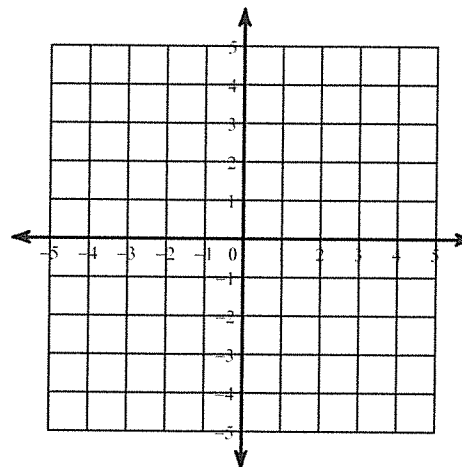
12)  $x - 4y = -4$   
 $5x - 4y = 12$

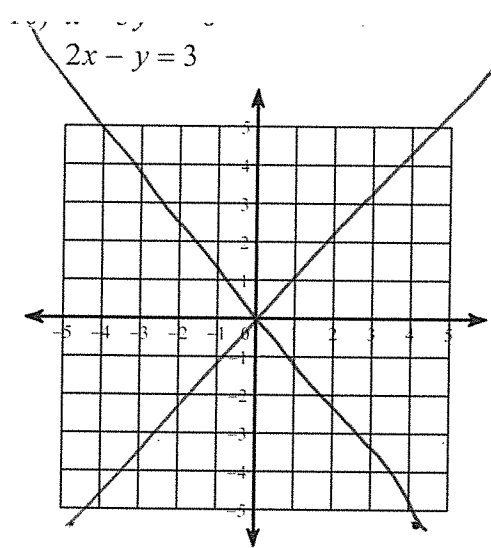
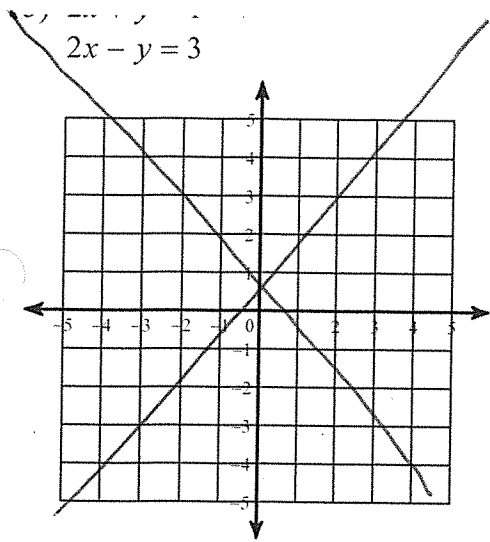


13)  $x + y = 3$   
 $8x + y = -4$

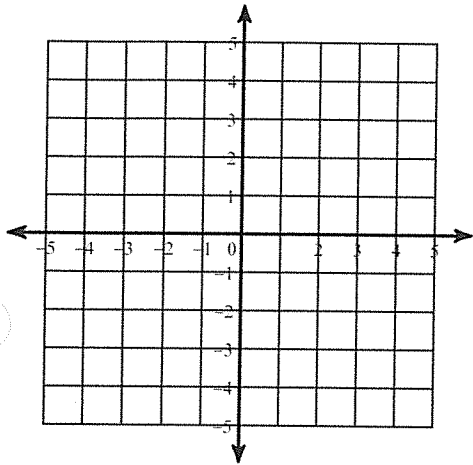


14)  $x - y = 2$   
 $x = -2$

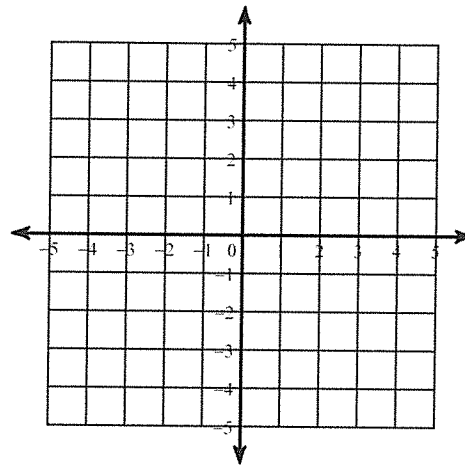




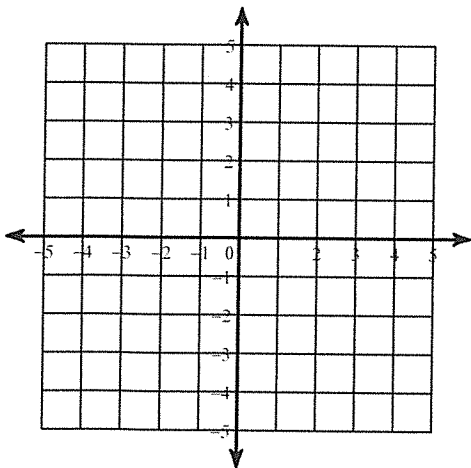
17)  $x + 3y = -12$   
 $5x - 3y = -6$



18)  $2x + y = -4$   
 $x + 4y = 12$



19)  $x + 2y = 8$   
 $x - 2y = -4$



20)  $2x + 3y = -12$   
 $5x - 3y = -9$

