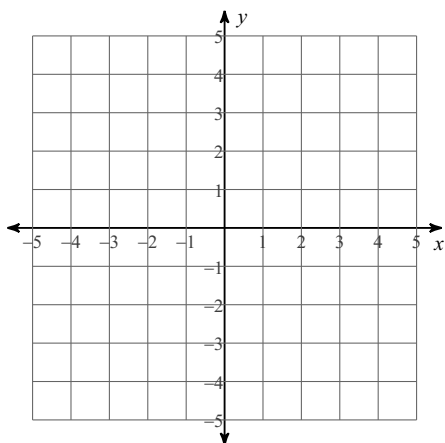


## Unit 3.1 Example Solving systems by graphing

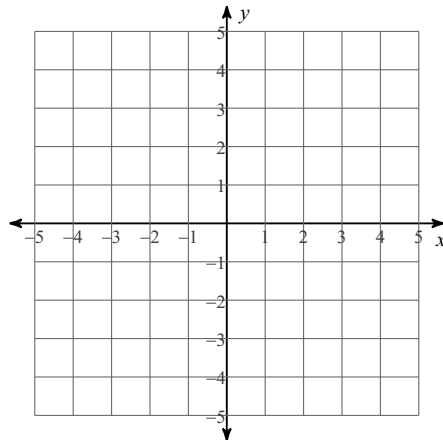
Solve each system by graphing.

1)  $y = \frac{1}{3}x - 1$

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

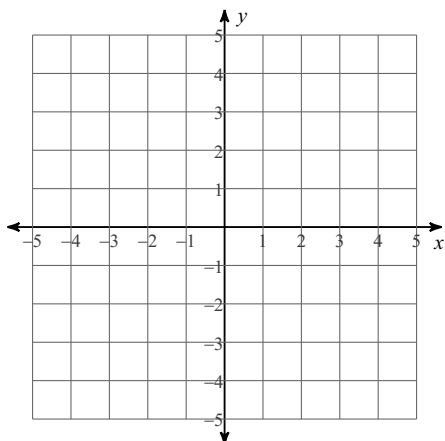


2)  $y = x - 4$   
 $y = -3x + 4$

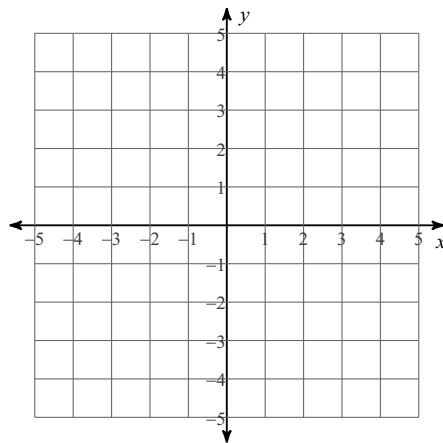


3)  $y = -2x - 4$

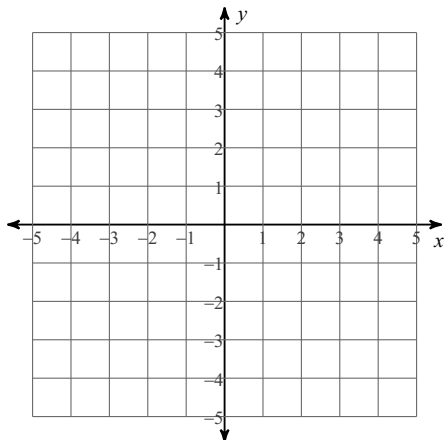
$y = -\frac{1}{3}x + 1$



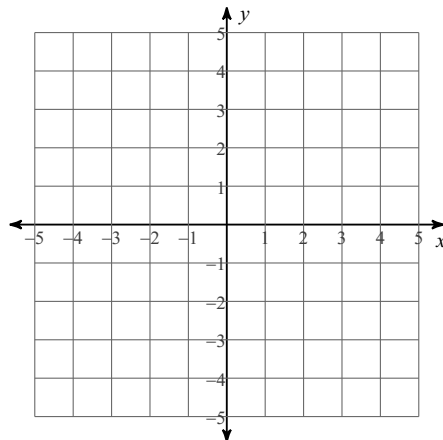
4)  $y = \frac{3}{2}x + 4$   
 $y = \frac{3}{2}x + 3$



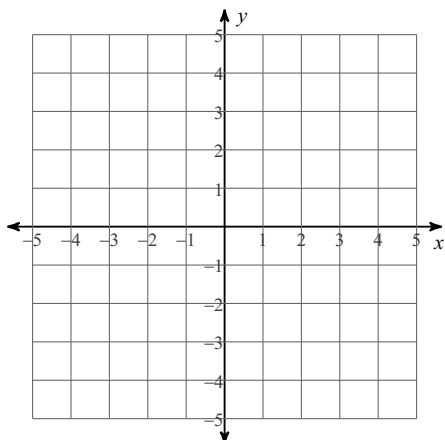
$$\begin{aligned} 5) \quad & x + 2y = 6 \\ & 3x - 4y = 8 \end{aligned}$$



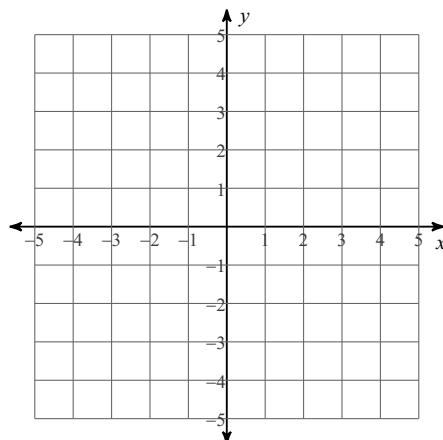
$$\begin{aligned} 6) \quad & 5x - 3y = 9 \\ & x + 3y = 9 \end{aligned}$$



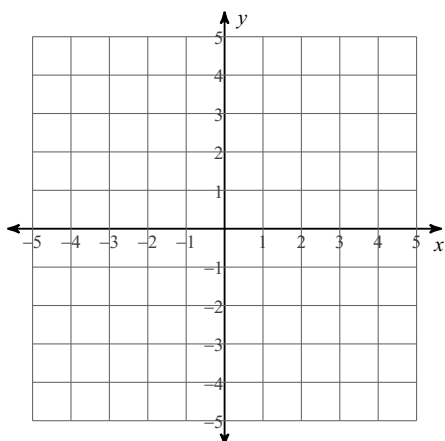
$$\begin{aligned} 7) \quad & x - 4y = 12 \\ & 7x - 4y = -12 \end{aligned}$$



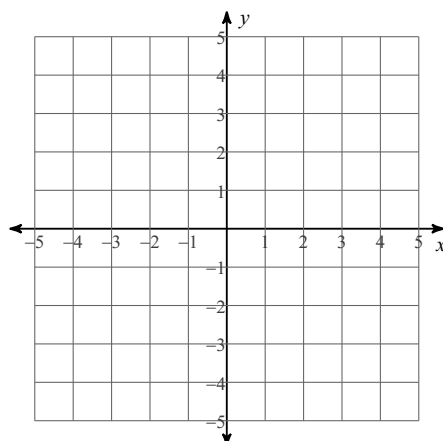
$$\begin{aligned} 8) \quad & 4x - 3y = 6 \\ & 4x - 3y = -3 \end{aligned}$$



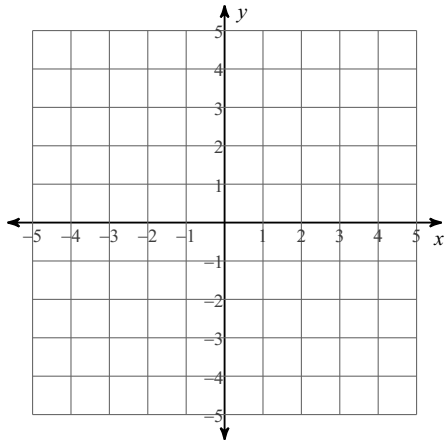
$$\begin{aligned} 9) \quad & -3y = 12 + 2x \\ & -12 = 3y + 2x \end{aligned}$$



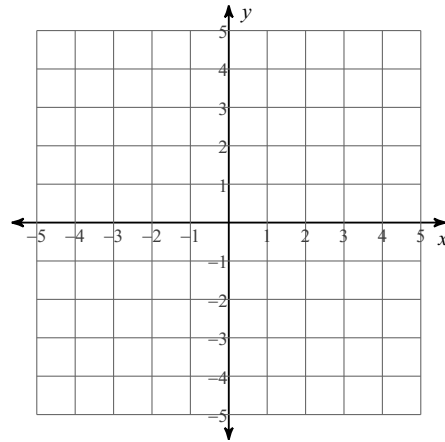
$$\begin{aligned} 10) \quad & 5x + 8 - 2y = 0 \\ & y = -3 - x \end{aligned}$$



$$11) \begin{aligned} -5x &= -3y + 9 \\ 0 &= -3y - x - 9 \end{aligned}$$



$$12) \begin{aligned} x &= 1 - y \\ 12 + 3y &= -18x \end{aligned}$$

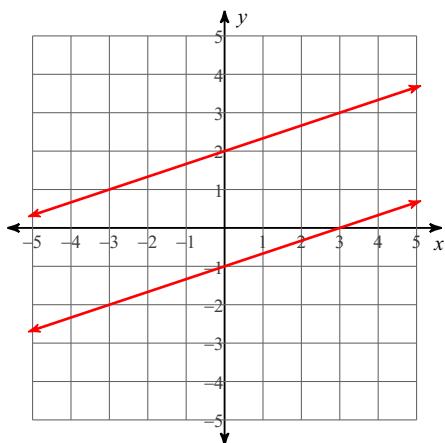


## Unit 3.1 Example Solving systems by graphing

Solve each system by graphing.

1)  $y = \frac{1}{3}x - 1$

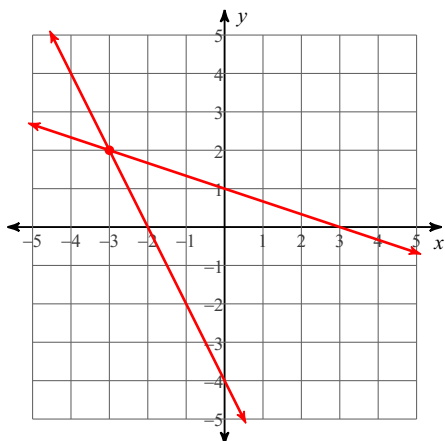
$y = \frac{1}{3}x + 2$



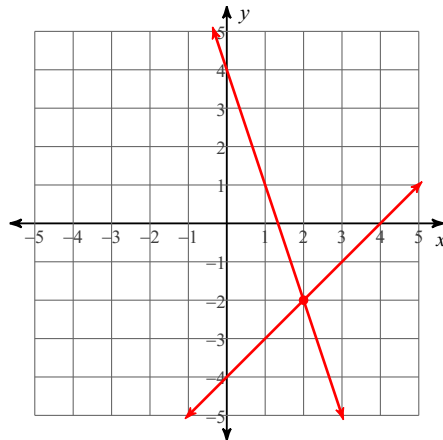
No solution

3)  $y = -2x - 4$

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

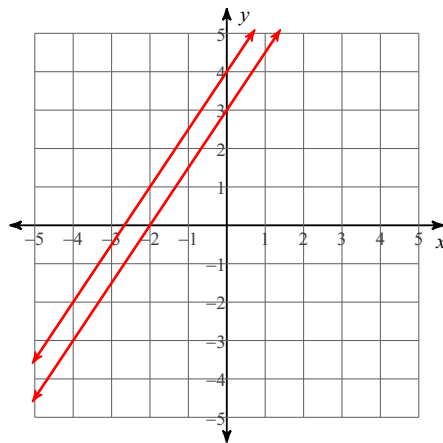
 $(-3, 2)$ 

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

 $(2, -2)$ 

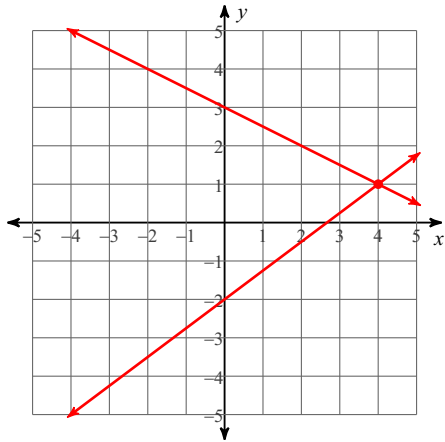
4)  $y = \frac{3}{2}x + 4$

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



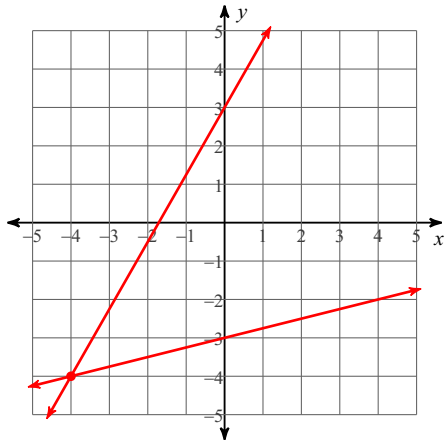
No solution

5)  $x + 2y = 6$   
 $3x - 4y = 8$



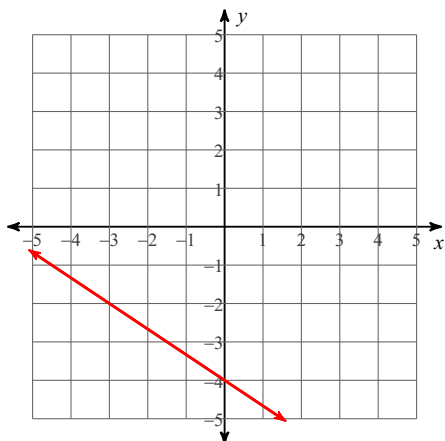
$(4, 1)$

7)  $x - 4y = 12$   
 $7x - 4y = -12$



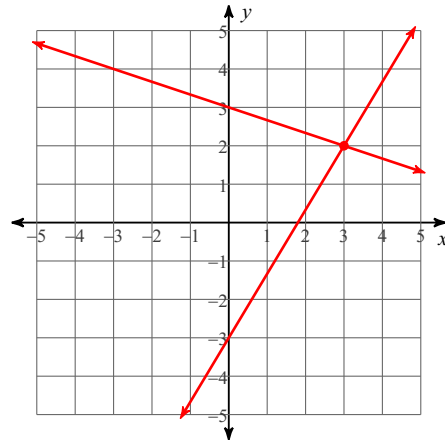
$(-4, -4)$

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



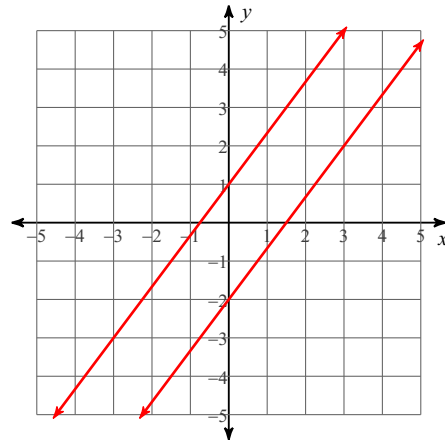
Infinite number of solutions

6)  $5x - 3y = 9$   
 $x + 3y = 9$



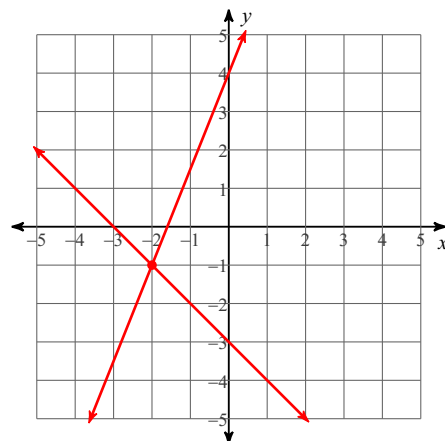
$(3, 2)$

8)  $4x - 3y = 6$   
 $4x - 3y = -3$



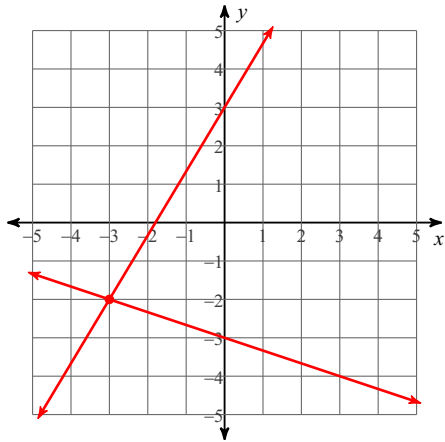
No solution

10)  $5x + 8 - 2y = 0$   
 $y = -3 - x$



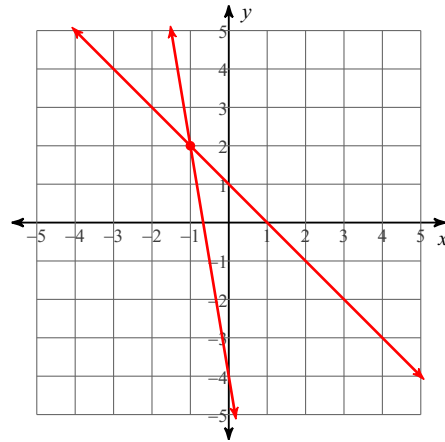
$(-2, -1)$

$$11) \begin{aligned} -5x &= -3y + 9 \\ 0 &= -3y - x - 9 \end{aligned}$$



$(-3, -2)$

$$12) \begin{aligned} x &= 1 - y \\ 12 + 3y &= -18x \end{aligned}$$



$(-1, 2)$