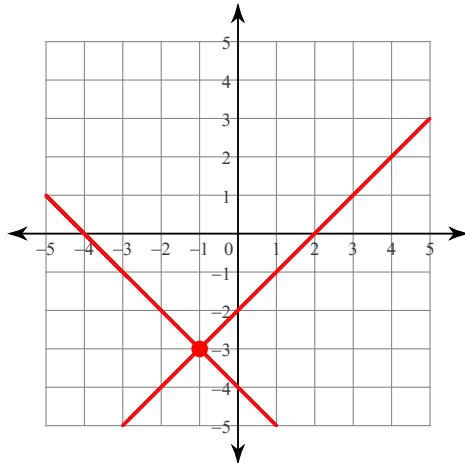


Practice 8.4 Special Systems

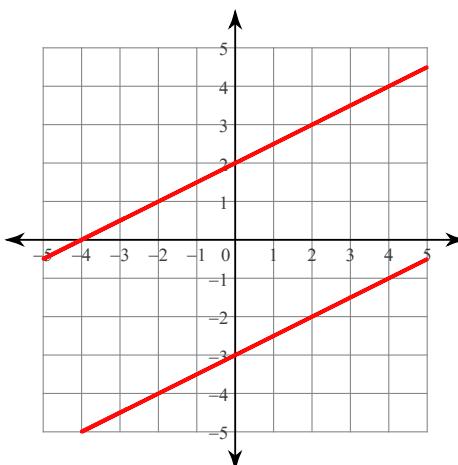
Solve each system by graphing.

1) $y = -x - 4$
 $y = x - 2$

 $(-1, -3)$

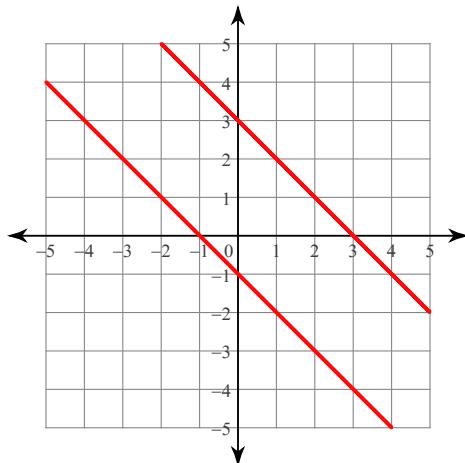
2) $y = \frac{1}{2}x + 2$

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



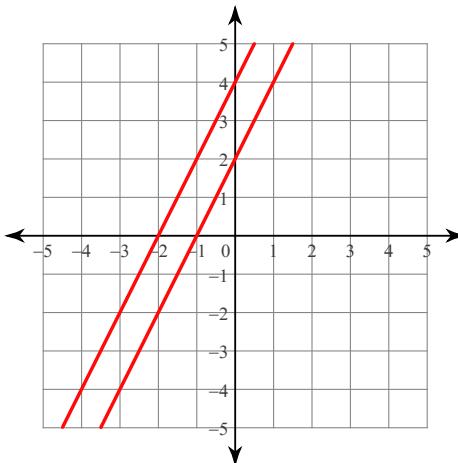
No solution

3) $x + y = 3$
 $x + y = -1$



No solution

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



No solution

Solve each system by elimination.

$$\begin{aligned} 5) \quad -3x + 7y &= -2 \\ 6x - 14y &= 4 \end{aligned}$$

Infinite number of solutions

$$\begin{aligned} 6) \quad 16x - 4y &= -4 \\ -8x + y &= -3 \end{aligned}$$

(1, 5)

$$\begin{aligned} 7) \quad 9x + 15y &= -12 \\ -3x - 5y &= 7 \end{aligned}$$

No solution

$$\begin{aligned} 8) \quad -5x - 4y &= -1 \\ 10x + 8y &= 2 \end{aligned}$$

Infinite number of solutions

Solve each system by substitution.

$$\begin{aligned} 9) \quad 12x - 2y &= 3 \\ y &= 6x - 2 \end{aligned}$$

No solution

$$\begin{aligned} 10) \quad y &= 3x + 21 \\ -9x + 3y &= 63 \end{aligned}$$

Infinite number of solutions

$$\begin{aligned} 11) \quad 3x - 6y &= -6 \\ y &= x - 2 \end{aligned}$$

(6, 4)

$$\begin{aligned} 12) \quad y &= -8x - 1 \\ 24x + 3y &= -3 \end{aligned}$$

Infinite number of solutions