

Systems of Equations Review

Name: \_\_\_\_\_

In Exercises 1–4, Solve the system by substitution.

1.

$$\begin{aligned}y &= 2x + 9 \\5x + y &= -5\end{aligned}$$

3.

$$\begin{aligned}-4x + 2y &= 0 \\x + 2y &= -10\end{aligned}$$

2.

$$\begin{aligned}-21x - 3y &= 7 \\y &= -7x + 3\end{aligned}$$

4.

$$\begin{aligned}8x + 4y &= -24 \\5x + y &= -18\end{aligned}$$

In Exercises 5–8, Solve the system by elimination.

5.

$$\begin{aligned}-x + y &= 4 \\5x + 5y &= -20\end{aligned}$$

7.

$$\begin{aligned}6x - 2y &= 8 \\-6x + 3y &= -9\end{aligned}$$

6.

$$\begin{aligned}-9x - 7y &= 8 \\3x - 4y &= -28\end{aligned}$$

8.

$$\begin{aligned}-5x - y &= 14 \\-10x + 5y &= 0\end{aligned}$$

In Exercises 9–10, Solve the system using any method.

9.

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

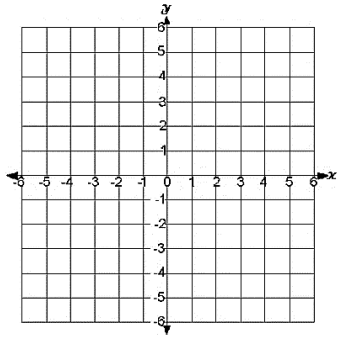
10.

$$\begin{aligned}-18x + 7y &= 1 \\9x - 4y &= 2\end{aligned}$$

In Exercises 11–14, Solve the system by graphing.

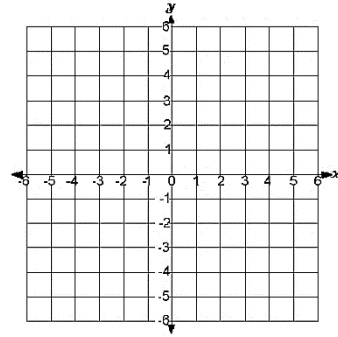
11.

$$\begin{aligned} y &= -4x - 1 \\ y &= -5 \end{aligned}$$



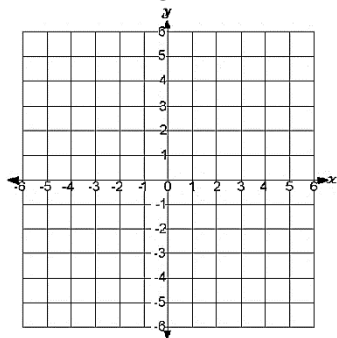
12.

$$\begin{aligned} y &= \frac{3}{2}x + 1 \\ y &= -\frac{1}{2}x - 3 \end{aligned}$$



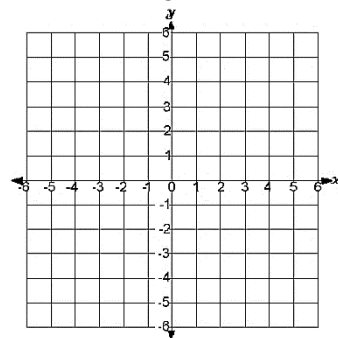
13.

$$\begin{aligned} y &= \frac{1}{3}x - 2 \\ y &= \frac{1}{3}x + 3 \end{aligned}$$



14.

$$\begin{aligned} y &= \frac{3}{2}x - 1 \\ y &= \frac{1}{3}x - 1 \end{aligned}$$



In Exercises 15–16, Determine whether the ordered pair is a solution to the system.

15. Is  $(0,3)$  a solution?

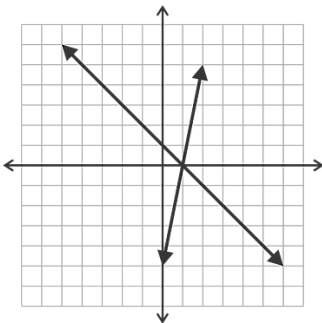
$$\begin{aligned} 5x + y &= 3 \\ -3x - 5y &= -15 \end{aligned}$$

16. Is  $(1,2)$  a solution?

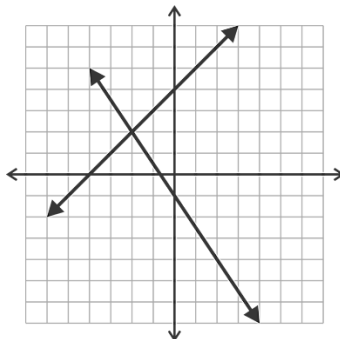
$$\begin{aligned} x - 2y &= 10 \\ 8x + 2y &= 8 \end{aligned}$$

In Exercises 17–18, What is the solution to the system?

17.



18.



19.

