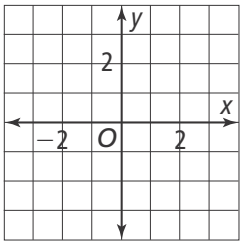
4-1 Additional Practice

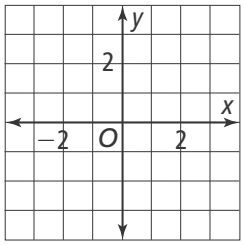
Solving Systems of Equations by Graphing

Use a graph to solve each system of equations. List the solution.

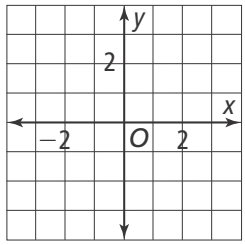
1. $\begin{cases} y = 2x - 1 \\ y = -4x - 7 \end{cases}$



2. $\begin{cases} 18x - 3y = 21 \\ y = 6x - 7 \end{cases}$

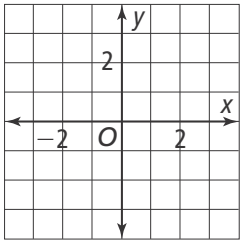


3. $\begin{cases} y = 6x + 4 \\ 6x - y = 1 \end{cases}$

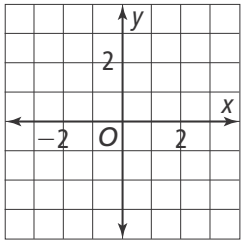


Use a graph to approximate the solution of each system. List the estimated solution.

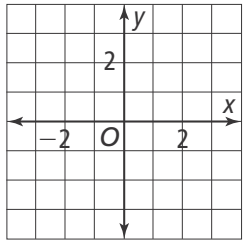
4. $\begin{cases} y = 5x - 3 \\ y = -3x + 4 \end{cases}$



5. $\begin{cases} y = 4x - 3 \\ y = 8x - 5 \end{cases}$



6. $\begin{cases} y = -3x + 7 \\ x - 2y = -6 \end{cases}$



7. Can there be more than one point of intersection between the graphs of two linear equations? Explain.

8. Elena and Marcus jog after school each day. One day, Elena and Marcus jogged a total of 15 miles. Elena jogged 1 mile more than Marcus. Use a graph to find the number of miles each person jogged.