Solving Systems of Linear Equations by Graphing

Using the Intercept Method

1. Graph the equations in the same coordinate plane.
2. Determine the coordinates of all the points common to the graphs.

Practice Exercises

Find the solutions of the following systems of linear equations graphically.

1. $\begin{cases} x+y &= 12 \\ x-y &= 8 \end{cases}$
2. $\begin{cases} 3x+6y &= 4 \\ 6x+12y &= 8 \end{cases}$
3. $\begin{cases} 8 &= x+y \\ -4 &= x-y \end{cases}$
4. $\begin{cases} x+y &= 3 \\ x+y &= -2 \end{cases}$
5. $\begin{cases} x-8y &= 2 \\ 3x-24y &= 6 \end{cases}$

Problem Set

Find the solutions of the following systems of linear equations graphically.

1. $\begin{cases} y &= \frac{2}{3}x+6 \\ y &= -\frac{3}{2}x+6 \end{cases}$
2. $\begin{cases} x+y &= 7 \\ x-y &= 1 \end{cases}$
3. $\begin{cases} 4x-y &= 8 \\ 3x+2y &= 6 \end{cases}$
4. $\begin{cases} x+4y &= 8 \\ x-2y &= 2 \end{cases}$
5. $\begin{cases} x+y=5 \\ y=5x+\frac{1}{2} \end{cases}$

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