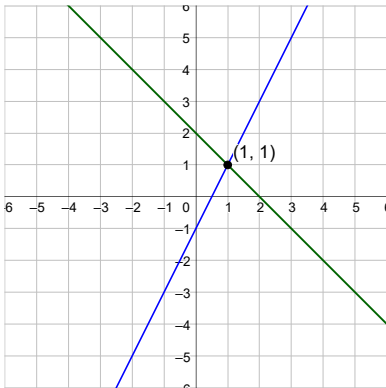


Precalculus

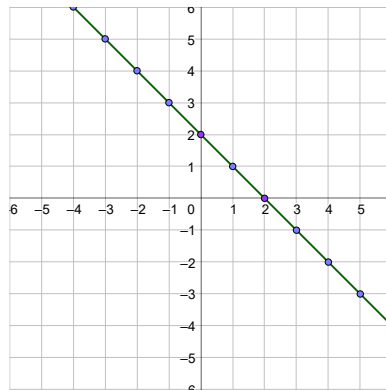
8-02 Two-Variable Linear Systems

Three possibilities for solutions

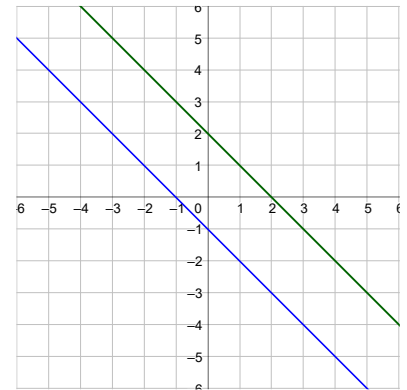
- 1 Solution: _____
and _____



- Infinitely Many Solutions: _____
and _____



- No Solution: _____



Solving Linear Equations by Elimination

1. Write the equations in _____ ($ax + by = c$)
2. Obtain coefficients of one variable that differ only in _____ by _____ the equations by constants.
3. _____ the equations and _____ the resulting equation. (A variable will be eliminated.)
4. _____ the answer into either original equation and solve.
5. _____ your solution.

- If _____ the variables are _____ and the result is
 - True (like $0 = 0$), there are _____
 - False (like $0 = 9$), there are _____

Solve $\begin{cases} 4x + y = -3 \\ x - 3y = 9 \end{cases}$