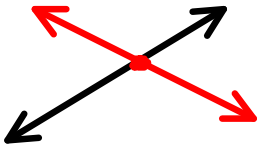
Solving Systems of Equations Graphically

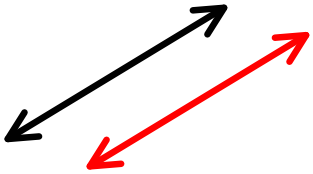


Intersecting Lines

One Solution

Consistent

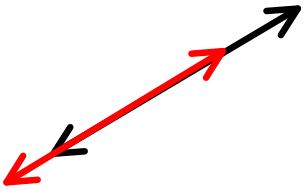
Independent



Parallel Lines

No Solution

Inconsistent



Coinciding Lines

Infinite Solutions

Consistent

Dependent

Step 1: Rewrite each equation in slope-intercept form.

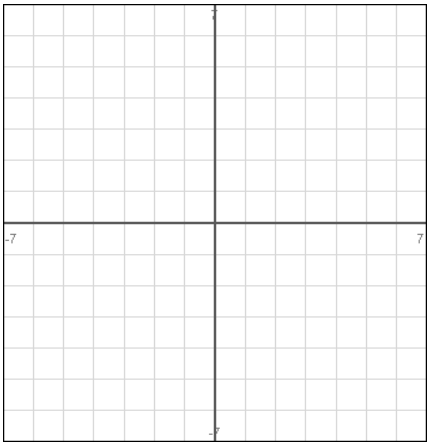
Step 2: Graph the lines and find the intersection point.

Step 3: Check your answer.

Directions: Solve each system of equations graphically.

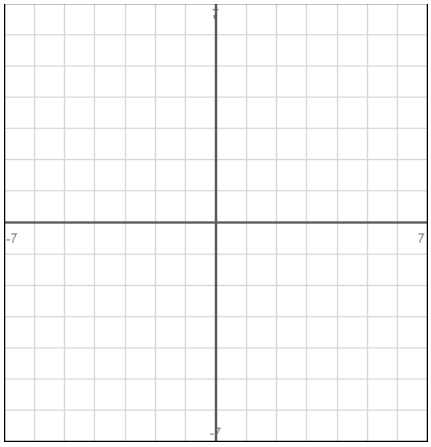
1. $x + y = 4$

   $x - y = 2$



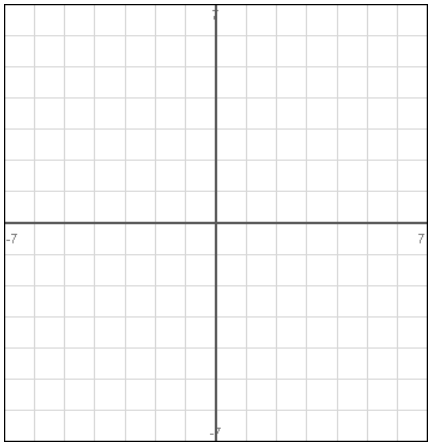
2. $2x - 3y = 4$

$x + 4y = -9$



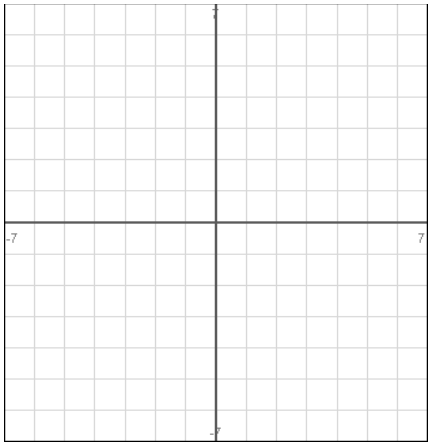
3. $y = \frac{3}{2}x$

$y = -2$



4. $\frac{3}{4}y = \frac{1}{2}x - 3$

$2x - 3y = -6$



5. $y = 2x - 1$

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