

Solving Systems by Graphing

Name: _____ Date: _____

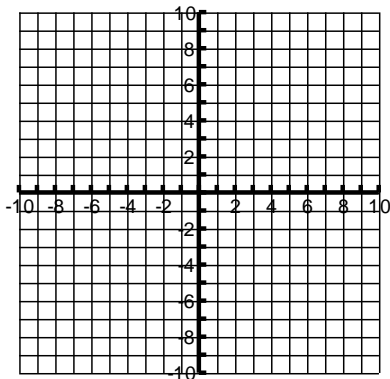
Types of solutions:

- If the lines have the same y-intercept b , and the same slope m , then the solution is _____.
- If the lines have the same slope m , but different y-intercepts b , the solution is _____.
- If the lines have different slopes m , the solution is _____.

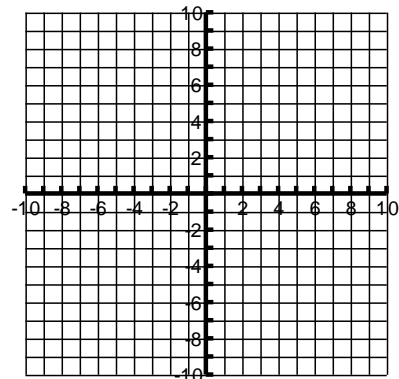
Steps

1. Make sure each equation is in slope-intercept form: $y = mx + b$.
2. Graph each equation on the same graph paper.
3. The point where the lines intersect is the solution.
If they don't intersect then there's no solution.
4. Check your solution algebraically!

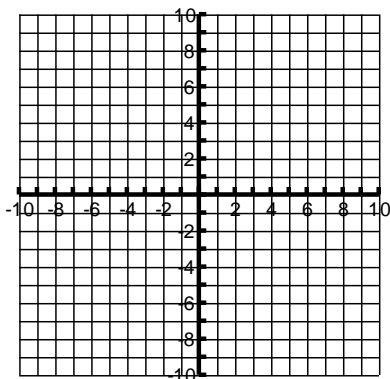
1. $y = x + 4$
 $y = -x + 2$



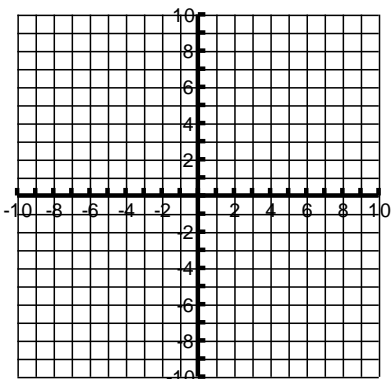
2. $y = -2x + 5$
 $y = -2x + 1$



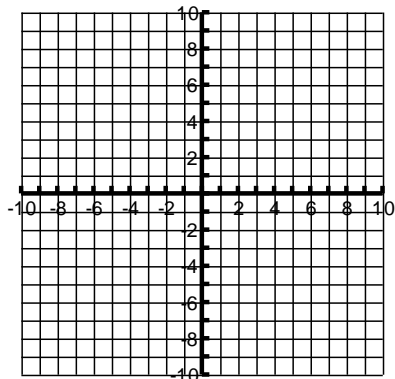
3. $y = -x - 2$
 $y = \frac{2}{3}x + 3$



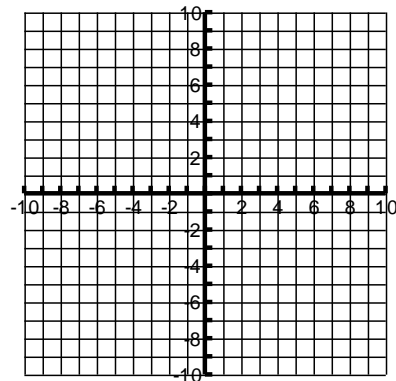
4. $y = 5$
 $2x + y = 1$



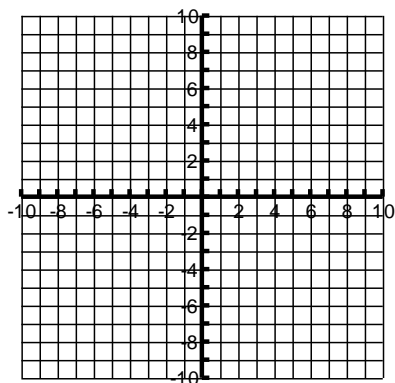
5. $y = \frac{3}{4}x + 1$
 $y = -\frac{1}{2}x - 4$



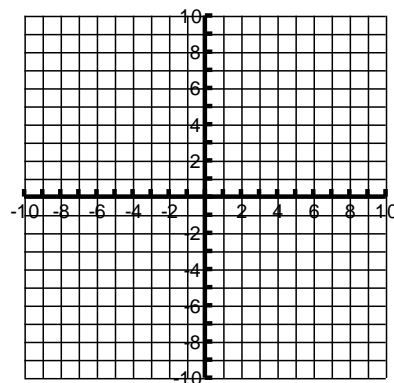
8. $-x + y = -4$
 $x + y = 2$



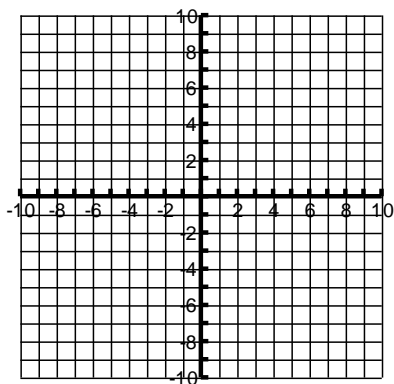
6. $y = \frac{5}{4}x - 2$
 $y = \frac{5}{4}x - 1$



9. $y = -4$
 $x = 2$



7. $y = -x + 1$
 $x = -3$



10. $2y + 3x = -6$
 $2y + x = 2$

