

Name: _____

Date: _____

The solution is where the lines CROSS - the one point on both. Pair with coordinate-plane paper. Last two are challenge problems!

1. Two lines cross at (3, 5). What is the solution of the system?

show your work

2. Check: is (2, 7) a solution of $y = 3x + 1$ and $y = x + 5$?

show your work

3. Check: is (1, 4) a solution of $y = 2x + 2$ and $y = 5x - 2$?

show your work

4. Graph $y = x + 1$ and $y = -x + 5$. Where do they cross?

show your work

5. Graph $y = 2x$ and $y = x + 3$.
Solution?

show your work

6. Two lines have the SAME slope and different intercepts. How many solutions?

show your work

7. Two equations graph the SAME line. How many solutions?

show your work

8. Graph $y = -2x + 8$ and $y = x - 1$.
Solution?

show your work

9. $y = (1/2)x + 3$ and $y = 2x$. Solve by graphing, then verify by substitution. ★ CHALLENGE

show your work

10. Without graphing, decide: $y = 3x + 2$ and $6x - 2y = -4$. One, none, or infinite solutions? ★ CHALLENGE

show your work