

Chapter 10: Systems of Linear Equations in Two Variables

Graph the following system of equations:

1) $2x + 3y = 6$ or $y = -\frac{2}{3}x + 2$

2) $x + y = 4$ or $y = -x + 4$

Graph both lines on the same coordinate plane. The solution to the system is the point where the two lines intersect. If the lines are parallel, there is no solution. If the lines are the same, there are infinitely many solutions.

Example:

Graph $y = 2x + 1$

Graph $y = -x + 4$

The solution is $(1, 3)$

The lines intersect at $(1, 3)$



Graph the following:

1) $2x + 3y = 6$

2) $x + y = 4$

3) $y = 2x + 1$

4) $y = -x + 4$

5) $y = 2x + 1$

6) $y = -x + 4$

7) $y = 2x + 1$

8) $y = -x + 4$

9) $y = 2x + 1$

10) $y = -x + 4$

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