5.1 SOLVING SYSTEMS OF LINEAR EQUATIONS BY GRAPHING

Graphing Linear Equations

Graph the following equations using slope-intercept form.



Systems of equations

A system of equations is when you have two or more equations with the same variables.

3x + 2y = 14x + y = 1

Solving systems of equations means: _____

In this case, the solution that will fit for this is (,)

To find the solution of systems of equations by graphing, graph both equations. Basically, the intersection is the solution.



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

Clue: Change these to slope-intercept form and then graph.

Use the graph to solve the system. Then check your solution algebraically.



a solution of the linear system.

<i>a</i>) (-1,2)	b) (-1,5)
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- y = -x + 1x + y = 4
- y = 2x + 4x - y = 6

- Check your solution.
- -x + y = 7x + 4y = 8

3)



