

Sept. 5, 2014

Linear Equations:
Method #1 Sept. 7, 2017

Question:
 Graph the equation to determine if the point (1,-2) falls on the line?
 $4x + 2y = -6$ $y = mx + b$

$\frac{2y}{2} = \frac{-4x - 6}{2}$ $\rightarrow 4(1) + 2(-2) = -6$
 $4 - 4 = -6?$

1) slope-intercept form
 $y = \frac{-2}{1}x - 3$

2) x & y intercepts

3) table of values

x	y
-2	-1
-1	0
0	1
1	2

1) Graphing

Does the point (2,-2) fall on the line $4x + 2y = -6$?

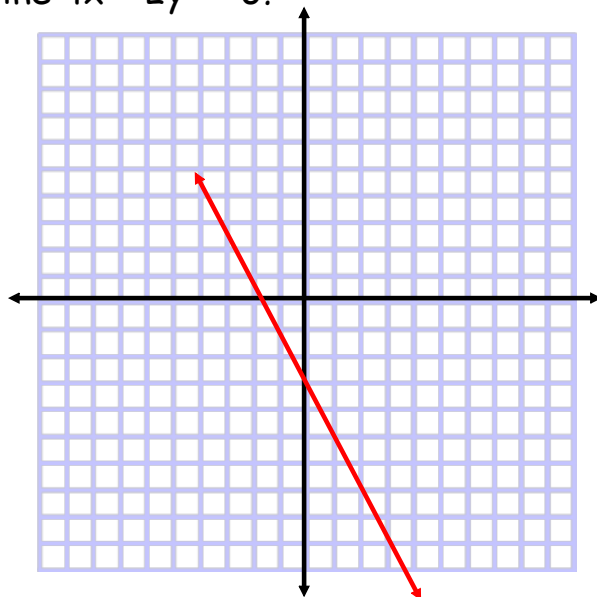
$$4(2) + 2(-2) = -6$$

$$8 - 4 = -6?$$

$$4 \neq -6?$$

No

Does the point (-2,1) fall on the line $4x + 2y = -6$?



Other examples

Sept. 14, 2015

"Systems of Linear Equations"

--a System is a set of 2 or more linear equations

Solving a system of equations:



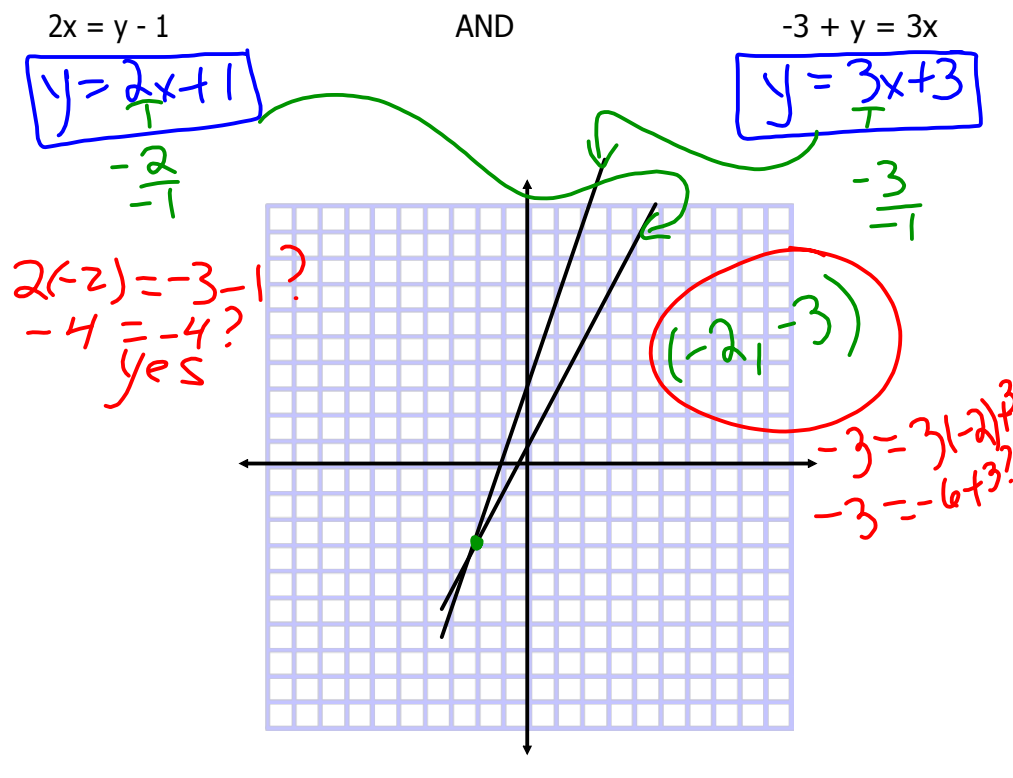
Calculate where the **two equations are equal** (the point where they would intersect).

There are 3 ways to determine this point:

- a. The Graphing Method
- b. The Substitution Method
- c. The Elimination Method

May 6-11:35 AM

EXAMPLE 1- Solve the following system of linear equations by graphing!



Apr 11-9:53 AM