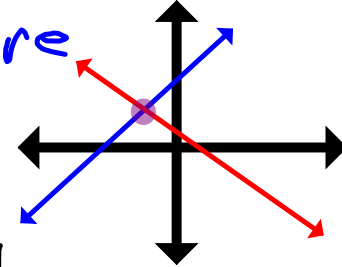


7.1 Solving and Graphing Linear Systems

Jan. 17, 2007

Graph Paper & Straight edge

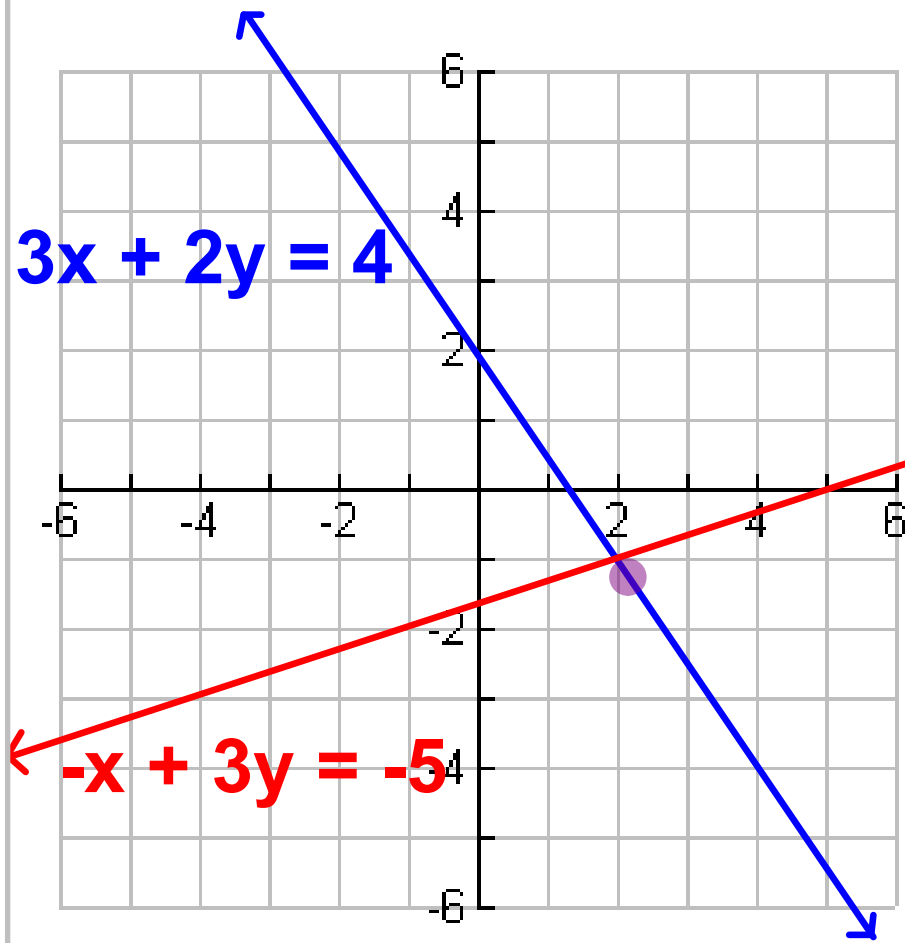
Linear System: 2 or More
Linear Equations.



Solution to Linear System:

The Coordinate Where the 2
Linear Equations Meet.

* The Solution Makes
the Linear Equations True!



Guess the solution of the Linear System.

$$(2, -1)$$

Check our Solution

$$3(2) + 2(-1) \stackrel{?}{=} 4$$

$$6 + -2 \stackrel{?}{=} 4$$

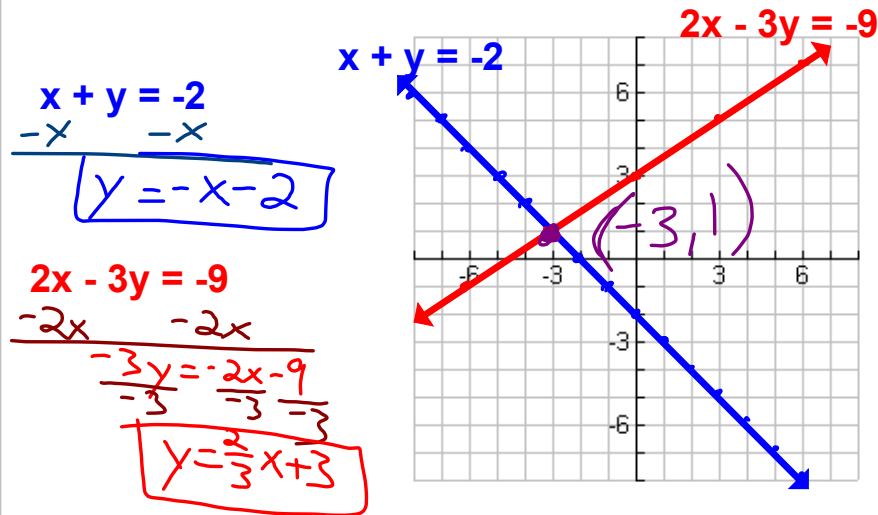
$$4 = 4 \checkmark$$

$$-(2) + 3(-1) \stackrel{?}{=} -5$$

$$-2 + -3 \stackrel{?}{=} -5$$

$$-5 = -5 \checkmark$$

Find the Solution to the following Linear System: Step 1: Graph.



Step 2: Guess the Solution (Intersection)
 $(-3, 1)$

Step 3: Check Solution

$$\begin{array}{r} x + y = -2 \\ (-3) + (1) \stackrel{?}{=} -2 \\ -3 + 1 \stackrel{?}{=} -2 \\ -2 = -2 \checkmark \end{array}$$

$$\begin{array}{r} 2x - 3y = -9 \\ 2(-3) - 3(1) \stackrel{?}{=} -9 \\ -6 - 3 \stackrel{?}{=} -9 \\ -9 = -9 \checkmark \end{array}$$

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O.T.L.

① PG 392: 8, 10, 12-15(a)
16, 20, 23, 24, 25

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