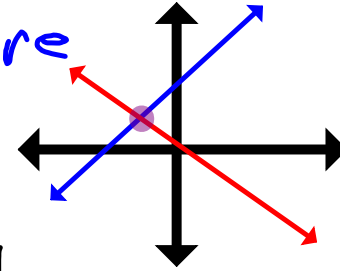


7.1 Solving and Graphing Linear Systems

Jan. 17, 2007

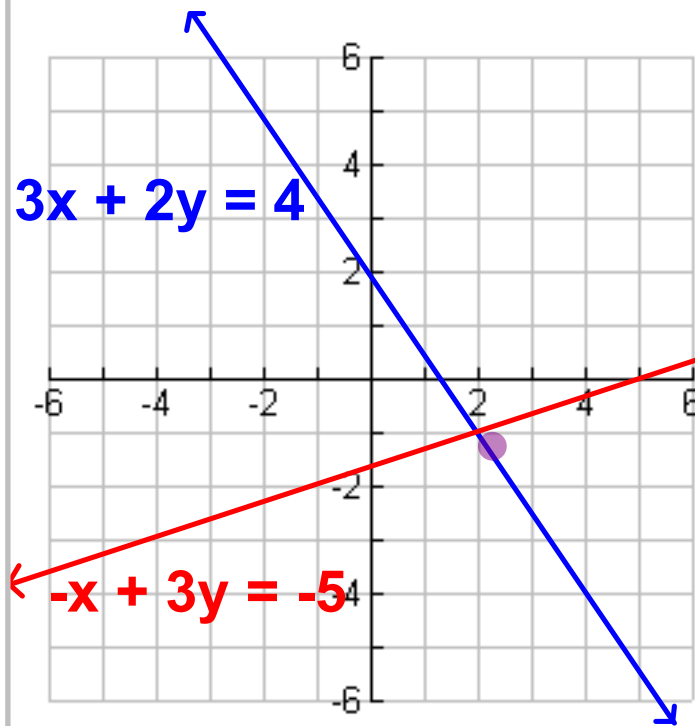
Linear System: 2 or More
Linear Equations.



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.**

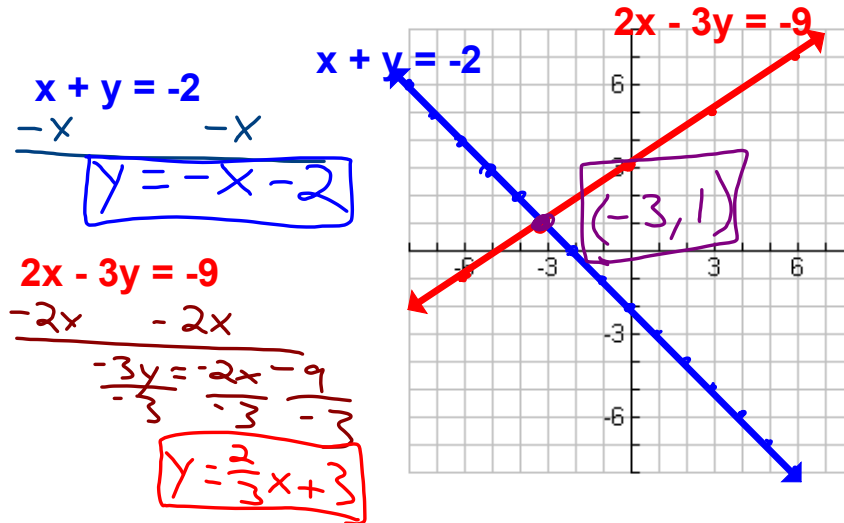
$$(2, -1)$$

Check our Solution

$$\begin{aligned} 3(2) + 2(-1) &\stackrel{?}{=} 4 \\ 6 + -2 &\stackrel{?}{=} 4 \\ 4 &= 4 \checkmark \end{aligned}$$

$$\begin{aligned} -(2) + 3(-1) &\stackrel{?}{=} -5 \\ -2 + -3 &\stackrel{?}{=} -5 \\ -5 &= -5 \checkmark \end{aligned}$$

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



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

Step 3: Check Solution

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

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

O.T.L. **1-25 ALL**
① Ps 392: ~~8, 10, 12-15 (11)~~
~~16, 20, 23, 24, 25~~
11
∩