## Intro to Ch 7.1

- If the middle row is the x-axis and the middle row is the y-axis, who is the origin?
- What quadrant are you representing?
- What is your ordered pair?
- Are you a solution to x y = -2, if so please stand up?
- Do you notice anything? Sit down.
- Are you a solution to x + y = 4, if so please stand up?
- Do you notice anything?

Feb 16-3:26 PM

Let's try another one.

- Are you a solution to
   x y = -1, if so please stand up?
- Sit down.
- Are you a solution to x + y = 3, if so please stand up?
- What did we notice this time?

Feb 17-7:38 AM

Do we need one more?

- If you are a solution to x = 3, please stand up.
- Sit down.
- If you are a solution to y = 2, please stand up.

What do we notice this time?

Feb 17-7:42 AM

Ch 7.1 Solving systems of equations by graphing.

**System of equations** are 2 or more equations.

A <u>solution</u> to the system is the **point of** intersection or the **ordered pair** that works in **both** equations.

Feb 17-7:44 AM

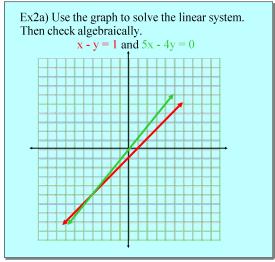
Ex1a) Determine if (4,2) is a solution to this system? -x + y = -2 and 2x + y = 10

Ex1b) Determine if (2, -3) is a solution to this system?

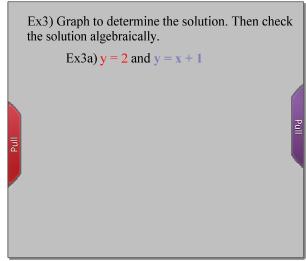
$$y = 2x + 1$$
 and  $y = x + 1$ 

Feb 17-7:49 AM Feb 17-7:52 AM

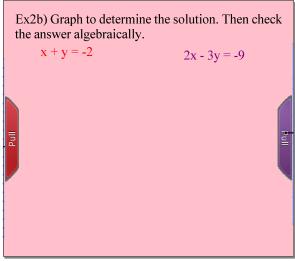
1 Is (5,2) a solution to 3x - 2y = 11 and -x + 6y = 7?



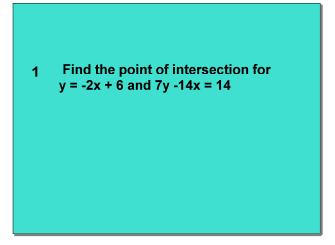
Feb 17-7:58 AM



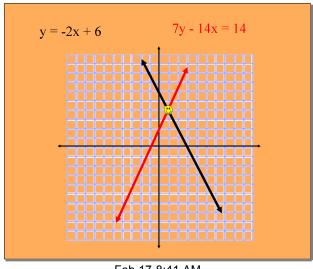
Feb 17-7:56 AM



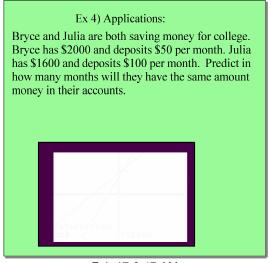
Feb 17-8:00 AM



Feb 17-8:38 AM

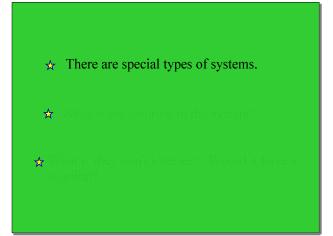


Feb 17-8:41 AM



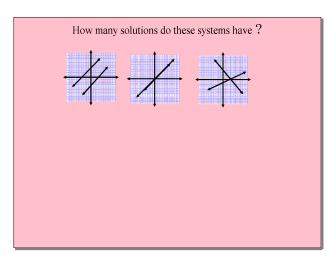
Feb 17-8:47 AM

So how can we find or determine if it is a solution to the system?

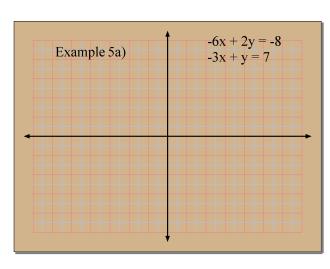


Feb 17-1:28 PM

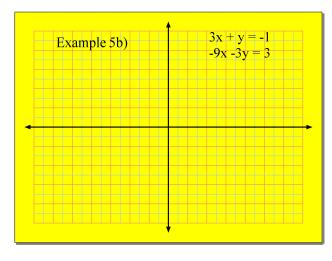
Feb 15-6:35 PM



Feb 15-6:38 PM



Feb 15-6:46 PM



Feb 15-6:46 PM

## How many solutions does this system have? 2x + y = 5

$$-6x - 3y = -15$$

- A Infinitely many
- B No solution
- C One solution

Feb 15-7:34 PM

## Try #4 How many solutions does this system have? -6x + 2y = 4 -9x + 3y = 12 A Infinitely many B No solution C One solution

Feb 15-7:46 PM Feb 15-7:48 PM

Try #5 **Graph and determine how** 

many solutions the system

has: -x + y = 7

В

С

2x - 2y = -18

Infinitely many

No solution

One solution

In words, how do we determine no solution and infinitely many solutions?

Mar 2-10:42 AM