# Solving Systems of Equations – Elimination (Addition & Subtraction)

A.REI.6 – Solving systems exactly and approximately

### Agenda

#### Homework:

- Elimination (Add/ Subtract) WS
- Summary for notes
- -AM

### Materials:

- Notebook
- Calculator (if needed)

### DO NOW:

- 1. Write homework
  - Shanyn(Pd 3); Kylie (Pd 6),
     please stamp planners
- 2. <u>Set up Power Math</u> Notes in Notebook

**Topic:** Solving System of Equations Algebraically – Elimination (Add/Subtract) Method



### Set up Power Math Notes (see example below)

Name: Date: Period: Topic: Solving System of Equations Algebraically – Elimination (Add/Subtract) Method		
Toolbox: (leave about 8 lines)		Summary/Reflection:
Study Questions:	Workspace:	



# How do you solve a system of equations using the elimination method?

Step 1

 Add/Subtract the two equations so that one of the variable cancels out

Step 2

Solve for the remaining variable

Step 3

 Plug answer into one of the equations to solve for the other variable

Step 4

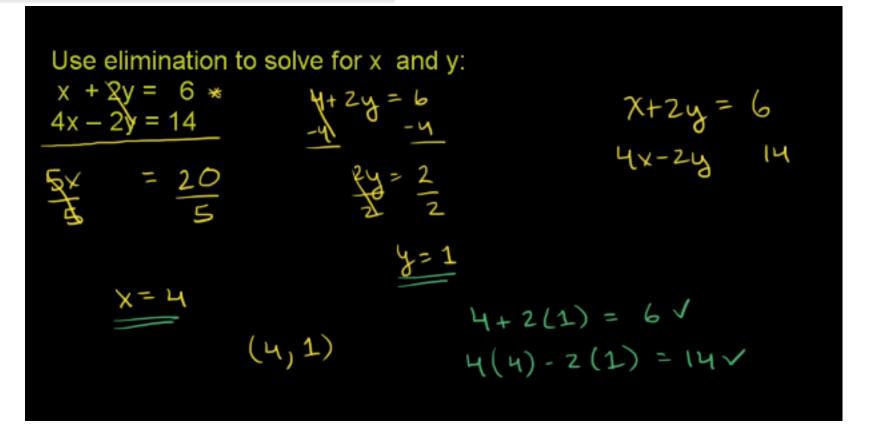
CHECK your solution

### $\star$

### Example #1 - Elimination with Addition Method

$$x + 2y = 6$$
  
 $4x - 2y = 14$ 

Click on the example below to watch the tutorial video. PAUSE the video at the end so you can copy notes

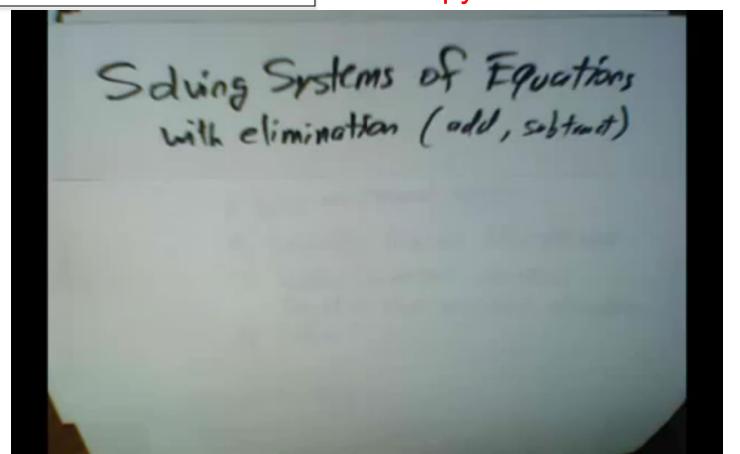


## Example #2 – Elimination with Subtraction Method + Special Case

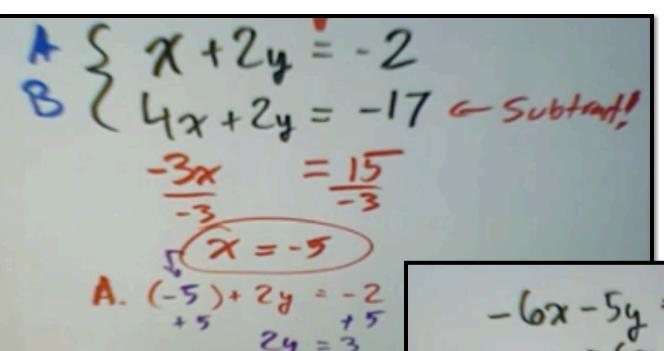


$$x + 2y = 8$$
 $4x + 2y = 32$ 

Click on the picture below to watch the tutorial video. PAUSE the video when needed to copy notes

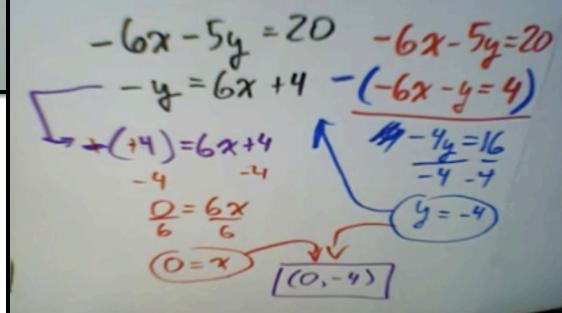


### Screenshots of video from last slide



Example 2

Example 1



### Classwork

- Each table group will receive 2 example problems (Yellow paper)
- 2. Work together in your table groups to complete the Practice Problems (White paper)
  - SHOW WORK on FOLDER PAPER
- 3. Staple group work together and give to substitute
- 4. At **1:50 Substitute will pass out HOMEWORK** and collect all remaining group work (*Christian, please help to keep track of time and let the sub know when it is 1:50*)
- 5. Work on homework for remainder of class