Solving Systems of Equations - Substititon

A.REI.6 – Solving systems exactly and approximately

Agenda

Homework:

- SubstitutionWorksheet
- PMN Summary
- -AM

Materials:

- Notebook
- Calculator (if needed)

DO NOW:

On the next open page of your notebook:

Set up Power Math Notes (PMN)



Set up Power Math Notes (see example below)

Name: Date: Period: Topic: Solving Systems of Equations – Substitution Method		
Toolbox: (leave about 8 lines)		Summary/Reflection:
Study Questions:	Workspace:	



Toolbox

Step 1

Solve 1st equation for one variable

Step 2

Substitute into 2nd equation

Step 3

Solve 2nd equation

Step 4

 Plug answer into 1st equation to calculate the other variable

Step 5

CHECK your solution

The Puzzle Box

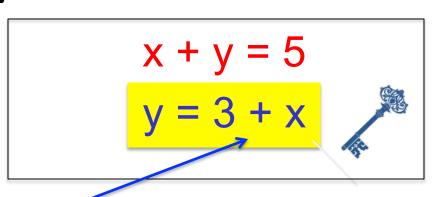




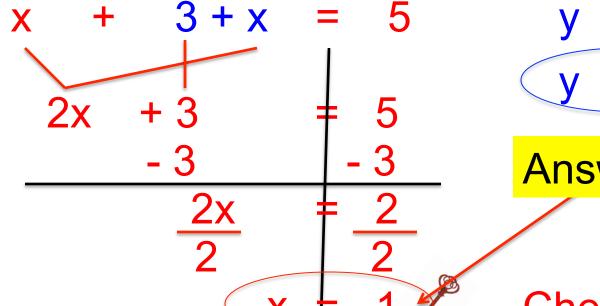
Example #1 – One equation is



already solved for a variable







$$y = 3 + 1$$

$$y = 4$$

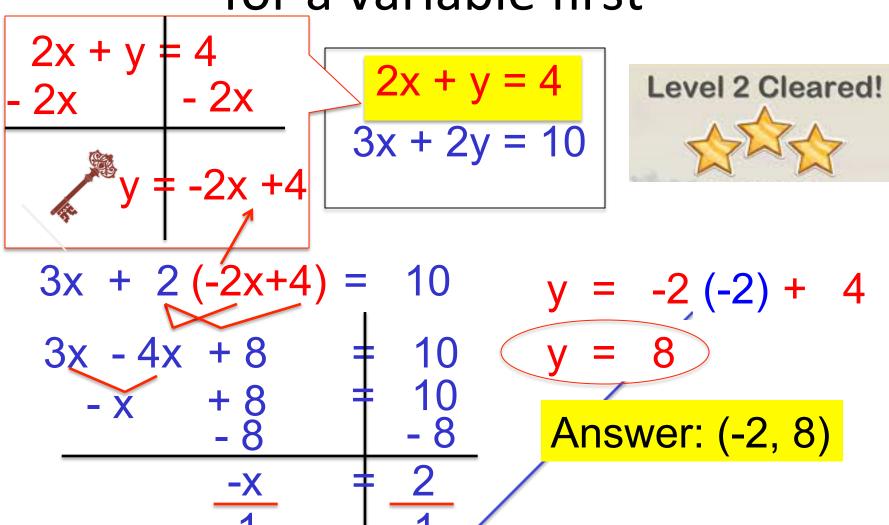
Answer: (1, 4)

Check your answer!



Example #2 – Need to solve for a variable first





Check your answer!



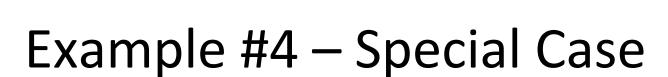
Example #3 – Special case



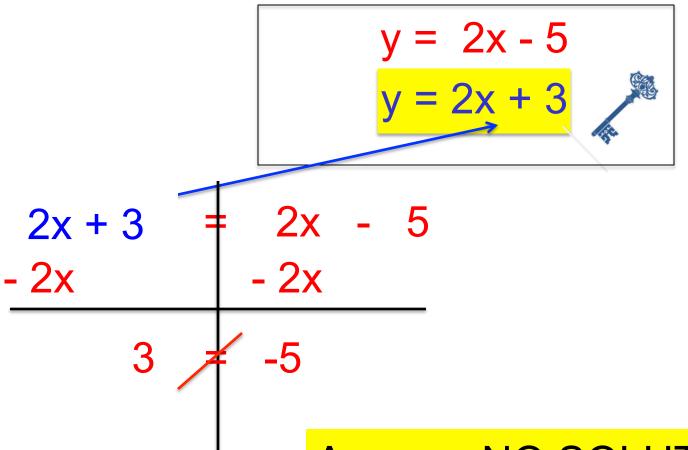
$$2x + y = 4
-2x
-2x
-2x
4x + 2y = 8
4x + 2 (-2x+4) = 8
4x - 4x + 8 = 8
8 = 8$$

Answer: Infinite Solutions









Answer: NO SOLUTION

Mini Quiz

$$y = 3x - 2$$

 $2x + 3y = 16$