Systems of Linear Equations in 3 variables

2.2

9/1/15

Solve using substitution

$2x + 7y + z = -53$

$-2x + 3y + z = -13$

$6x + 3y + z = -45$

Isolate a variable
Substitute the variable into the two other equations
Solve the 2 variable 2 equation system
Plug the two solved variables into an original equation to find the last variable.

We Try:

$x + 4y + z = 3$

$2x + y + z = 11$

$4x + y + 2z = 23$

Solve using elimination

$2x + y - z = 4$

$-2x + y + 2z = 6$

$x + 2y + z = 11$

Use elimination twice with two different pairs of equations to get rid of a variable.
Solve the 2 variable 2 equation system
Plug the two solved variables into an original equation to find the last variable.

We Try:

$2x + y - z = -2$

$-2x + y + 2z = 15$

$x + 2y + z = 11$

1) Combine your desks into groups of 4 by proximity.

2)Take out a piece of paper and pencil.

3) Each group will have about 5 minutes to work on the problem I give you. After 5 minutes you will go to the next table.
4) Each person must solve at least one problem. I want to see at least 4 different handwritings on the paper.
5) Turn in the paper at the end of the activitiy.