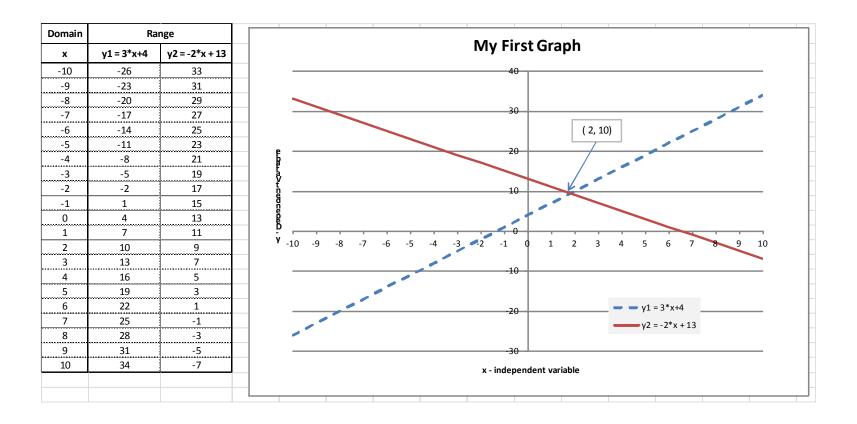
## **EXAMPLE**

Solve the system of equations using the graphical method by using MS Excel.

Remember, all computer programs graph using sets of coordinate pairsl.

## Steps:

put all equations in function form [ y = mx + b ]
Create the DOMAIN - usually -10,-9, -8, ...., 10 in an Excel column
Write the function in an adjacent column
Use MS Excel line graph tool(s)
Graphically identify the line intersection.



Solve the three homework problems below using MS Excel and the graphical technique.

Explicitly identify your answers on the graph within a text box. Example: (-3.5, 4.7)

**Problem 1**: 
$$x - y = 20$$
  $2x + y = 15$ 

$$2x + y = 15$$

**Problem 2**: 
$$3x - 2 - y = 0$$
  $y = -2x^2 + 4$ 

$$y = -2x^2 + 4$$

**Problem 3** 
$$2x - 3y = 0$$
  $4x + y = 8$ 

$$4x + y = 8$$

BONUS - Problem 4 (10 Points): You presently have \$300 and make \$8.50/hour while you friend Billy Bob presently has \$735 and makes \$7.00/hour. Assuming neither of you spend any money, how many hours will you have to work until you both have the same amount of money?

Define your variables:

- let x be the number of hours you work
- let y be the amount of money you make
- follow graphing steps!
- identify the answer.

Send the Excel file to mheinen\_1@msn.com as an e-mail attachment no later than Sep 15, 2014.

Name the Excel file as follows: LastName-Comp\_Lab-1.xlsx (Excel will automatically add the ".xlsx" suffix)