Computer Lab 1 – Excel Basics
100 Points

Name: _____
1/21/2018

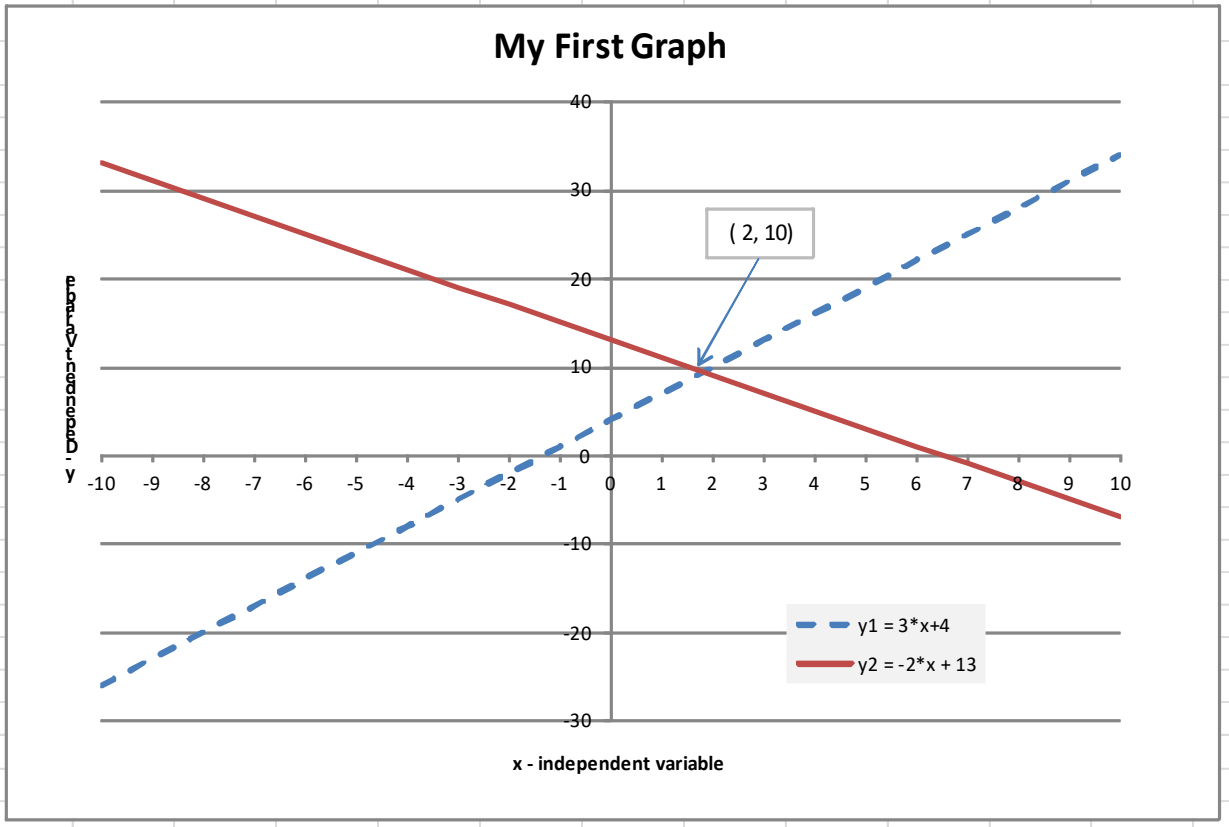
EXAMPLE

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.

Domain	Range	
x	y1 = 3*x+4	y2 = -2*x + 13
-10	-26	33
-9	-23	31
-8	-20	29
-7	-17	27
-6	-14	25
-5	-11	23
-4	-8	21
-3	-5	19
-2	-2	17
-1	1	15
0	4	13
1	7	11
2	10	9
3	13	7
4	16	5
5	19	3
6	22	1
7	25	-1
8	28	-3
9	31	-5
10	34	-7



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Solve the three homework problems below using MS Excel and the graphical technique. Include a hand solution as well.

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

Problem 2: $3x^2 - 20 - y = 0$ $y = 2\sin(x) - 4$

Problem 3 $2x - 3y = 0$ $\ln(4x) + y = 8$

Problem 4: 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

Explicitly identify the answer.

Send the Excel file to mheinen_1@msn.com as an e-mail attachment no later than Feb 12, 2018.

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