

EXCEL GRAPHING LABORATORY

Name: _____

Course Name: _____

Professor: _____

Section Name: _____

Click on Start button on the lower left hand side. Click on Programs, click on Microsoft Office and open Microsoft Excel. Open a new blank excel worksheet.

Insert the following data into the Excel spreadsheet:

Mass	Volume
2	4
4	8
8	16
16	32
32	64
64	128
128	256



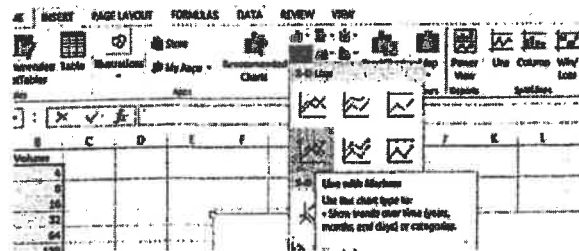
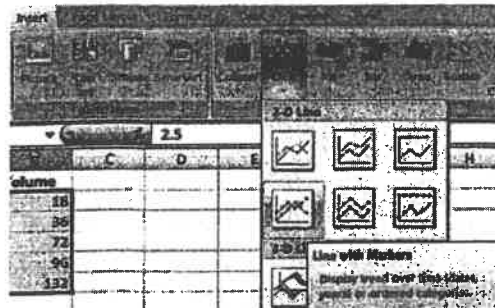
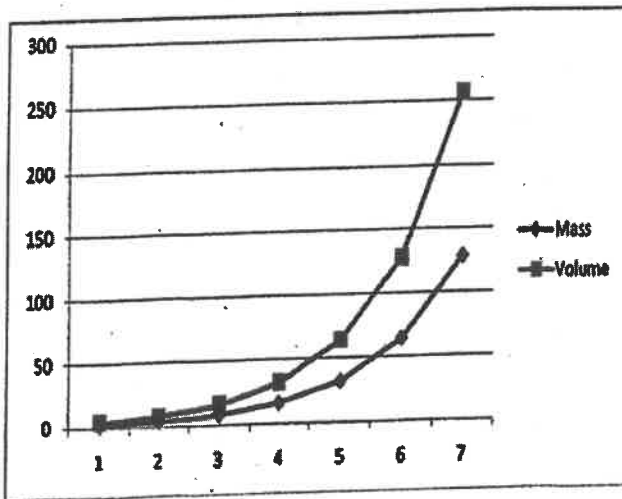
Highlight the two columns using the shift + v.

Click INSERT TAB.

Find the LINE TAB.

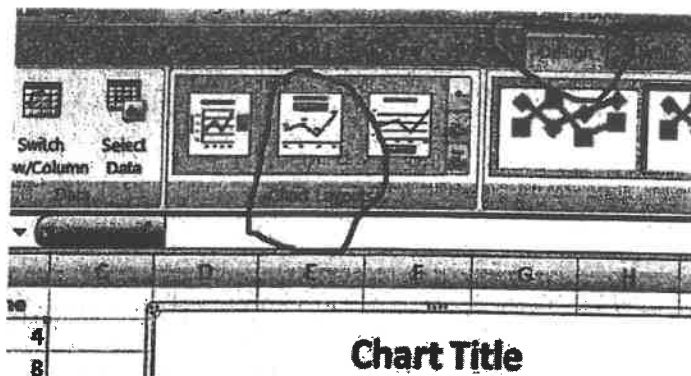
Click ON LINE WITH MARKERS tab.

Graph should look like this:

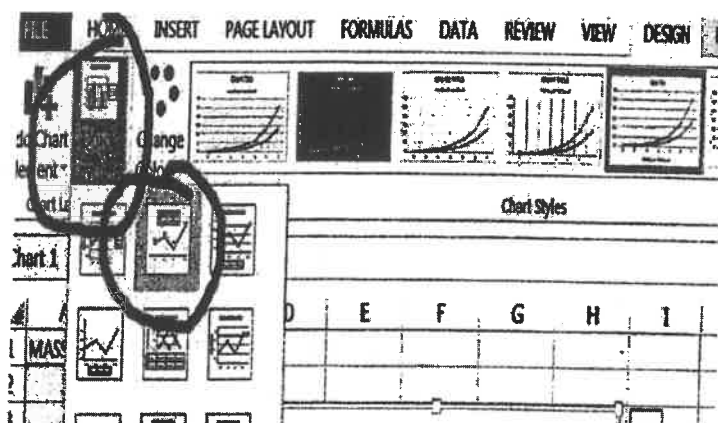


Click the Design Tab.

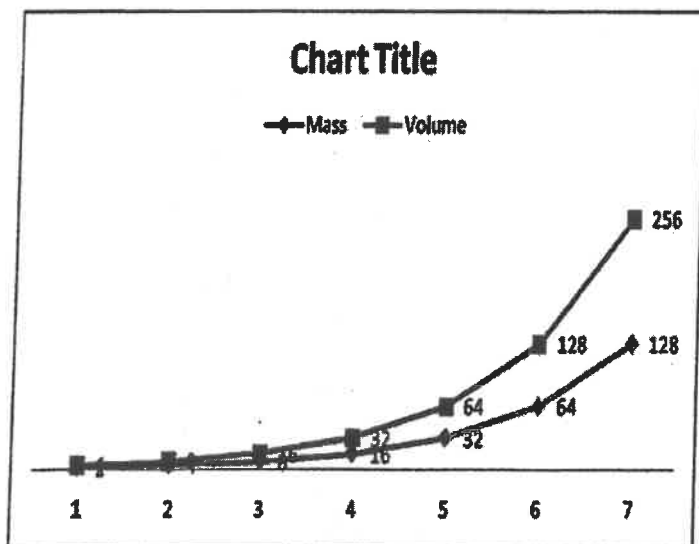
Find Chart Layouts. Select Layout 2.



Some newer versions of Excel will have a QUICK LAYOUT TAB. Select Layout 2.



Should look like this:



Highlight mass and volume data.

Click on Insert.

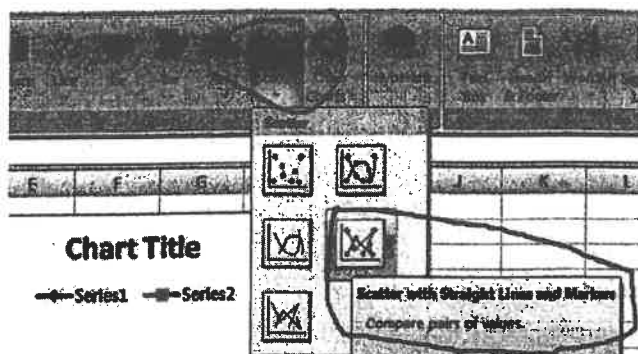
Click Scatter tab.

Select Scatter with Straight Lines and Markers

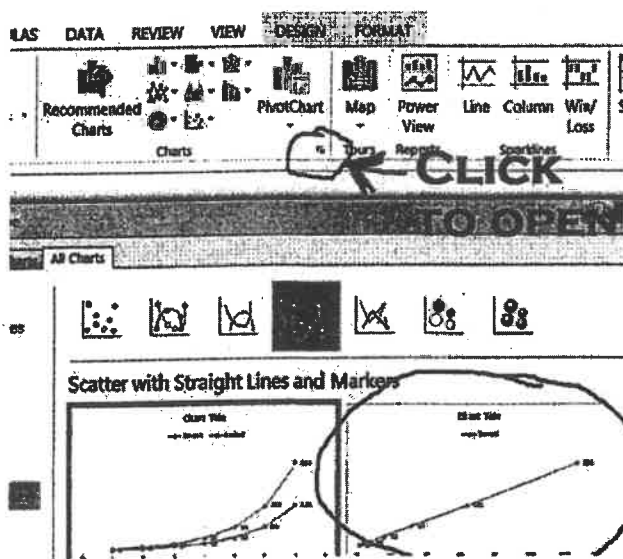
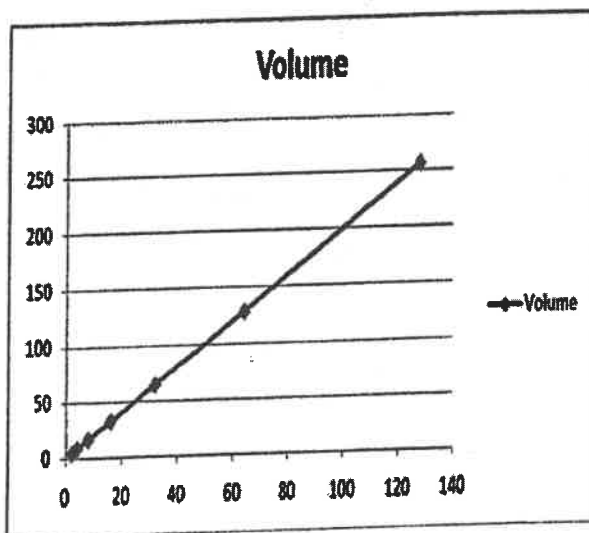
OR In newer versions of EXCEL:

Click on Insert. Click button to SEE ALL CHARTS.

Select the chart on the right that is circled.

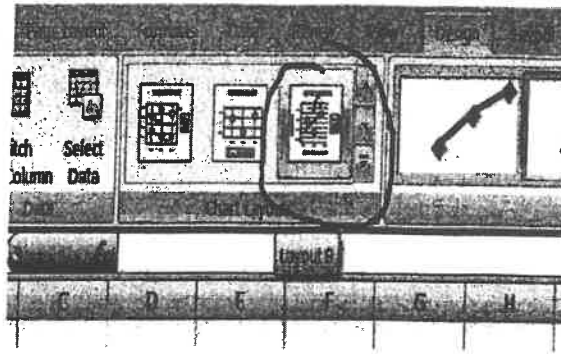


Your graph should look like this:



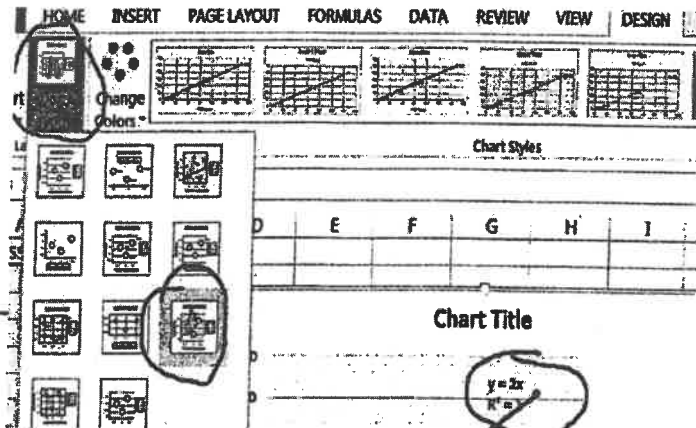
Click on Chart Layouts.

Click Layout 9 to get the equation of the line.

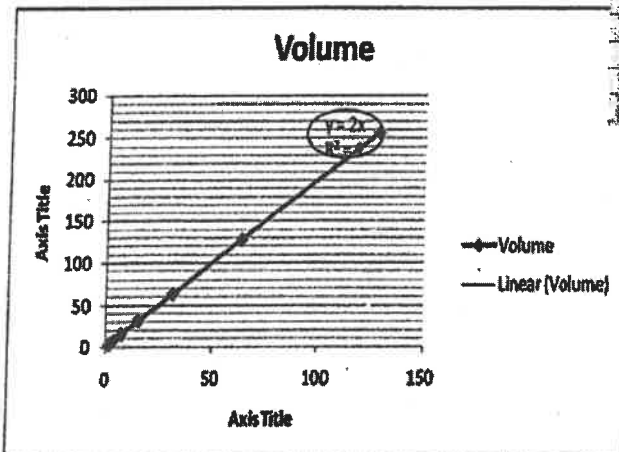


Some newer versions of Excel will have a QUICK LAYOUT TAB under the DESIGN TAB.

Select Layout 9.



So your equation for this line is $y = 2x$.

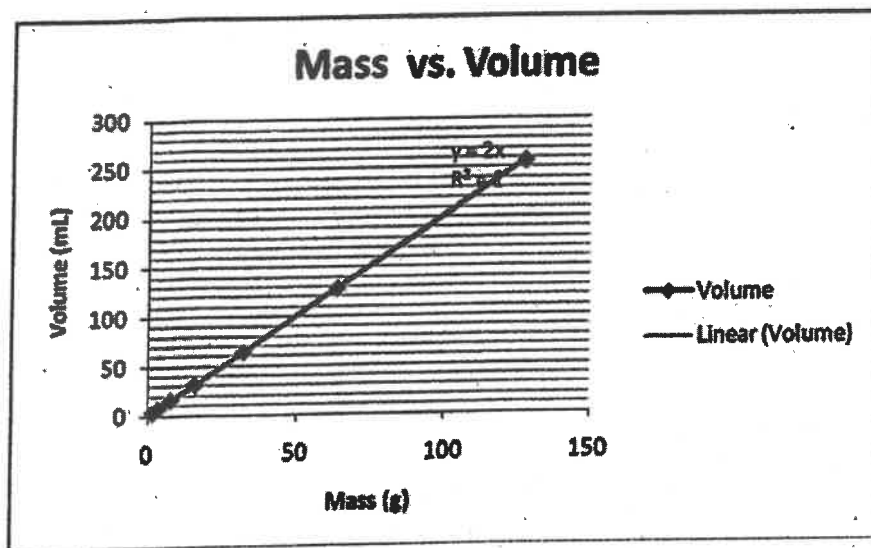


Click on Vertical "Axis Title" and change it to "Volume (mL)."

Click on Horizontal "Axis Title" and change it to "Mass (g)."

Click on "Volume" at the very top and change it to "Mass vs. Volume."

It should look like this:



REPEAT THIS PROCESS WITH THE FOLLOWING DATA SETS:

Density	Mass
2.5	90
5	180
10	360
15	480
20.5	660

Density	Volume
2.5	18
5	36
10	72
15	96
20.5	132

Turn this exercise in at next lab class. You have produced THREE GRAPHS from these three sets of data using the excel program.

2

3