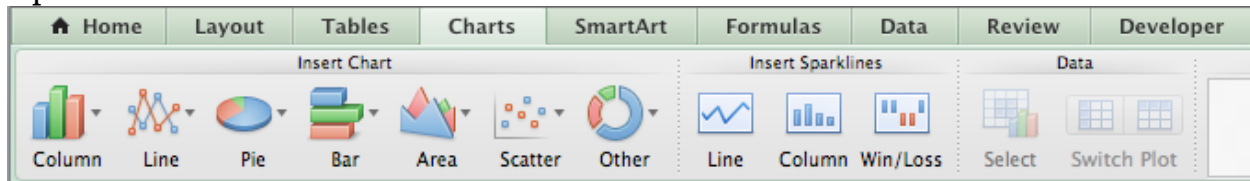


# Using Microsoft Excel for drawing graphs

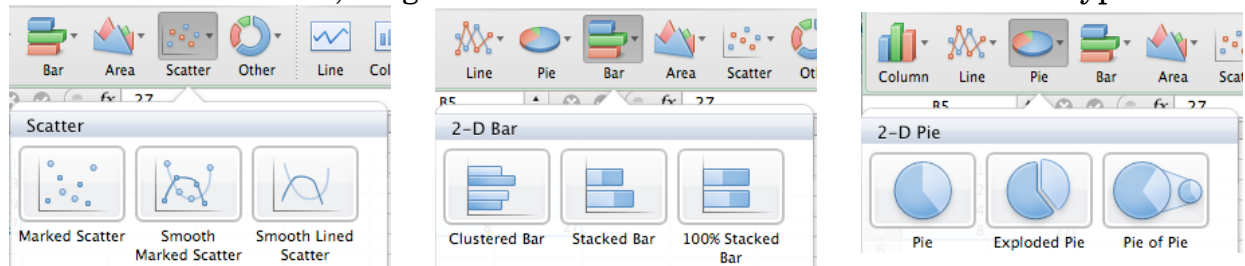
Open a new Excel file. Type your values and **select the data to be plotted**.

	A	B
1	x	y
2		1
3		3
4		9
5		27

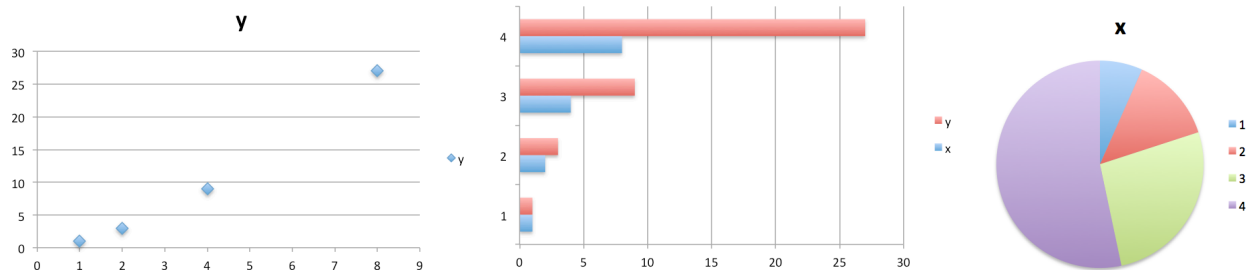
Open the chart toolbar.



With the data selected, drag down on an icon of the toolbar to select the type.

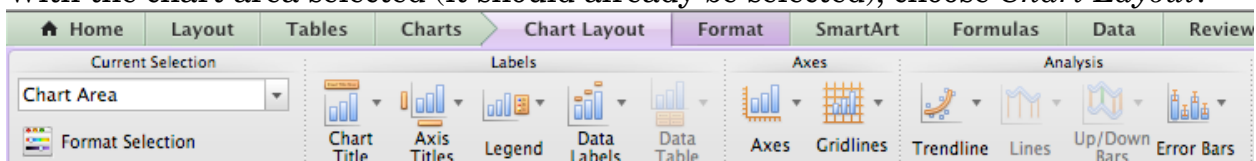


(Use a scatter plot to depict trends, a column or bar chart to show relative quantities, or a pie-chart to show the relative share of a whole.) Release and a graph will appear.



Move the cursor to the corner of the plot (the cursor becomes a diagonal arrow) and drag to resize the plot.

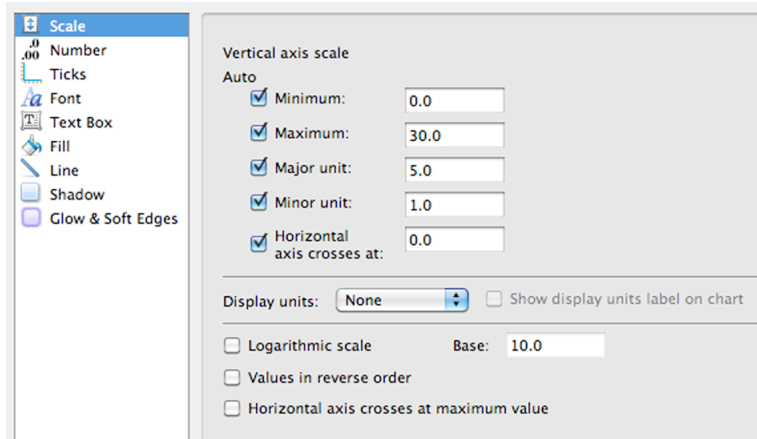
With the chart area selected (it should already be selected), choose *Chart Layout*.



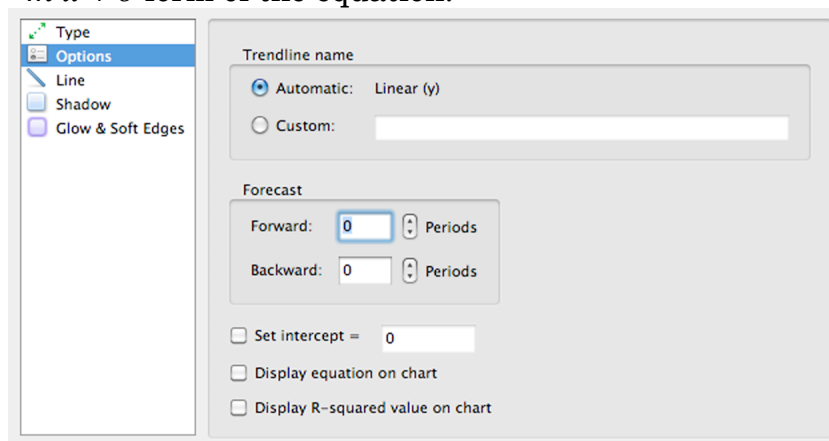
Click on *Axes Titles* or pulldown on the *Current Selection* dialog to select a title.

Click in the label on the chart and type to label the axes. Drag the labels to reposition them.

To change anything else, double click the item (for example double click on a point to change the point style and size or on an axis to make a log plot) or right click and select format from the popup menu or select the item in the chart toolbar and then click on the format icon.



To fit a line to the data use the *Trendline* command in the Chart Layout. Formatting the trendline will let you extrapolate the line forward or backward or display the  $y = m x + b$  form of the equation.



When the chart area is selected, you can drag the data selected to increase or decrease the data being plotted.

	A	B
1	x	y
2	1	1
3	2	3
4	4	9
5	8	27

To print only the chart, use copy and paste to move the chart to a different sheet and then print that sheet. (This is a known bug in Office 2011. In other versions you can select the chart and then choose print selection in the printer dialog.)

To make a scatter plot containing two sets of data, put all the  $x$ -values in one column and put each set of  $y$ -values in additional columns, with each data pair comprising one row. Select all sets of data and make the graph as above.

	A	B	C
1	x	y1	y2
2	1	2	
3	2	3	
4	3	4	
5	4	5	
6	3		1
7	4		3
8	6		7

