

Graphing in excel- ( slight modifications are necessary for new excel)

**Creating a scatter plot from data sets:**

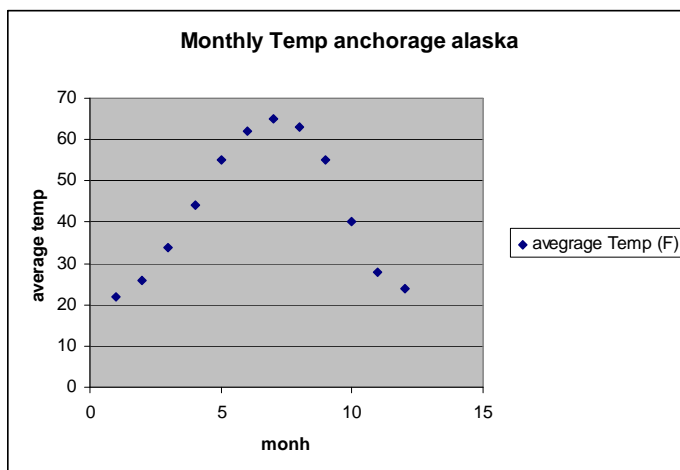
Suppose I am trying to graph the following data set:

Month	avegrage Temp (F)
<u>1</u>	22
<u>2</u>	26
<u>3</u>	34
<u>4</u>	44
<u>5</u>	55
<u>6</u>	62
<u>7</u>	65
<u>8</u>	63
<u>9</u>	55
<u>10</u>	40
<u>11</u>	28
<u>12</u>	24

The first step is to enter the data into the spreadsheet similar to the above example.

To create a scatter plot, highlight all of the data including the headers and then click on the insert > chart > xyscatter and select the first type of plot. Hit Next until you see a screen that asks you to label the title of graph and x and y axis. Correctly lable your x and y axis and give your graph a title. Hit Finish.

You should have a graph that looks something like this:



**Adding a sine curve to the graph:**

**Suppose I found a fit for my sin curve with the following parameters**

**A=25 b=pi/6 c=4 d=45**

You first need to create the data points for the graph by building a table.

	A	B	C
1	month	Temp	
2		1	
3		2	
4		3	
5		4	
6		5	
8		6	
9		7	
10		8	
11		9	
12		10	
13		11	
14		12	

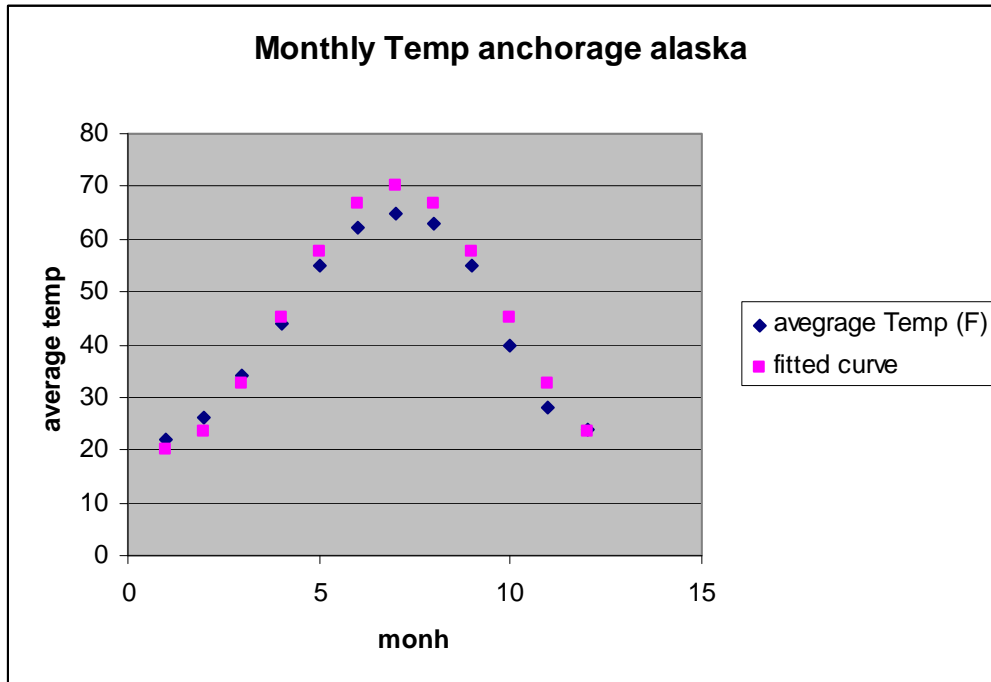
Now in the cell B2 write the equation of the sin curve your x value is the cell A2.

Example B2= =25\*SIN(PI()/6\*(A2-4))+45

Now starting from B2 to b14 highlight the column and hit edit>fill>down. This should calculate the rest of your values.

	A	B	C
1	month	Temp	
2		1	23.34936
3		2	20
4		3	23.34936
5		4	32.5
6		5	45
8		6	57.5
9		7	66.65064
10		8	70
11		9	66.65064
12		10	57.5
13		11	45
14		12	32.5

To add this new data to your graph right click on your graph and click source data. Under the series hit add. Give you're your fitted curve a tilte, and record the appropriate x and y columns for the data set. Hit ok and you should have the following graph.



Understandably this is a very quick tutorial and will not all of your questions. If you are having problems see me during office hours.