Quick Start Guide for Excel

P.S – you can use **ctrl+F to search** what you need in the If I need to column

Also, if you type MATLAB into the ctrl+F search bar you can skip to the MATLAB quick start guide

If I need to	Use these commands/directions	WHERE CAN I GET MORE HELP?
Create a new workbook	Once you have opened excel you can double click on Blank	https://www.linkedin.com/learning/learning-
	Workbook and excel will load a new Blank Workbook.	excel-2019/create-a-new-
		workbook?u=2203468
		BTW- This^ links to Video tutorials teaching
		you the basics of excel and is extremely
Open on Evicting workhook	M/hon van anan Evaal van aan aasaa almadu avietina	helpful!
Open an Existing workbook	When you open Excel, you can access already existing	https://www.excel-easy.com/
	Workbooks through clicking on File in the top left (then a	this site is also useful for everything Even A
	side window would appear) where you will find and double click on "open" this will enable you to look through your files	this site is also useful for everything Excel ^
	for existing workbooks to work on/ access.	
Add another sheet to my workbook	At the bottom of your workbook, you will see Sheet1 and	
Add another sheet to my workbook	next to it a + sign - simply click the plus to get a new sheet (2)	
	These to it a 1 sign - simply click the plus to get a new sheet (2)	
Import Data	Click on Data at the top of your excel workbook -> Get data	
	(top left) -> select from where you want to import the data -	
	> select what type of file the data is in	
Add Values from separate Cells	=(cell column1)(cell row1) + (cell column2)(cell row2)	https://support.microsoft.com/en-
rad values from separate cens	Then press enter	us/office/create-a-simple-formula-in-excel-
	men press enter	11a5f0e5-38a3-4115-85bc-f4a465f64a8a
	Example: =C3 + C4	
Subtract Values from separate Cells	=(cell column1)(cell row1) - (cell column2)(cell row2)	https://support.microsoft.com/en-
·	Then press enter	us/office/create-a-simple-formula-in-excel-
	·	11a5f0e5-38a3-4115-85bc-f4a465f64a8a
	Example: =C3 - C4	
Multiply Values from separate Cells	=(cell column1)(cell row1) * (cell column2)(cell row2)	https://support.microsoft.com/en-
	Then press enter	us/office/create-a-simple-formula-in-excel-
		<u>11a5f0e5-38a3-4115-85bc-f4a465f64a8a</u>
	Example: =C3 * C4	

Divide Values from separate Cells	=(cell column1)(cell row1) / (cell column2)(cell row2) Then press enter	https://support.microsoft.com/en- us/office/create-a-simple-formula-in-excel-
	Example: =C3/C4	<u>11a5f0e5-38a3-4115-85bc-f4a465f64a8a</u>
Graph my data	Highlight your data-> click on insert at the top -> go to recommended charts->choose which type of graph you want to use to graph your data.	https://www.workzone.com/blog/how-to-make-a-graph-in-excel/
Excel Shortcuts	You can find loads of excel shortcuts here ->	https://www.customguide.com/cheat- sheet/excel-cheat-sheet.pdf
Set Decimal Places	You can enter a value into a cell and in the Home tab, in the Number group, click the Decrease/Increase Decimal button	https://www.excel-easy.com/basics.html
Calculate with autosum	 Select the cell below the numbers you want to add. Select Home > AutoSum → . Press Enter. 	Access the excel help documentation for more help by typing the command you want to learn more about in the help search bar
Fill a series pattern of data automatically	 Enter the beginning of the series in two cells: such as Jan and Feb; or 2014 and 2015. Select the two cells containing the series, and then drag the fill handle across or down the cells. 	more help by typing the command you want to learn more about in the help search bar
Export graph to pdf	 File (top left) Export in the drop-down menu Hit create pdf and name and save your workbook wherever you want in the file explorer 	more help by typing the command you want to learn more about in the help search bar
Remove blank cells in data	 On the Home tab, in the Editing group, click Find & Select. Click Go To Special. 	more help by typing the command you want to learn more about in the help search bar

Name: Carlos F Revilla		
	3. Select Blanks and click OK. Excel selects the blank cells.	
	4. On the Home tab, in the Cells group, click Delete.	
	5. Click Delete Sheet Rows. Result:	

Quick Start Guide for MATLAB

If I need to	Use these commands/directions	More info is found
Set limits for x-axis for current axis	Type in xlim(limits) into your command window	By clicking the fx in the top left of the command window
- The same can be done for the y-axis	- ylim(limits)	
Clear everything in the command window	Type clc into the command window	Type doc followed by the command you need help with into the command window to find out more
		about the command
		Example: doc clc
Clear all variables in the workspace window	Type clear into the command window CAUTION: this will erase all set variables in the workspace	Type doc followed by the command you need help with into the command window to find out more about the command
		Example: doc clear
Find a mean for given array values	Type into command window>> mean(A)	Type doc followed by the command you need help with into the command window to find out more
If you have NaN values that you want to ignore in		about the command
your given array use ->	mean(A,'omitnan')	
Make a list of values (ie an Array)	Type into command window>>	Type doc Matrices and Arrays into command
	X = [1 2 3 4 5]	window
	By typing the following into the command window:	

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You can set the number of values you want from a	Y = linspace(lowerbound value, higherbound value,	
certain range using linspace	value of icrementation)	
Make a matrix	X =[1 2; 3 4; 5 6;]	Type doc Matrices and Arrays into command
	Will output a matrix 12	window
	3 4	
	5 6	
	The ; creates a new line / row to put values in	
Get a value from a matrix	In command window:	Chapter 2 of
det a value ironi a matrix		•
	X = varNameofMatrix(rowValue,ColumnValue)	https://tinyurl.com/ty2rjxb7
	Example:	
	we do not be a second	
	If X is the matrix above you can do	
	Y = X(2,1) and Y will equal the value 3	
Plot a Vertical Bar Plot	Function Format: bar(x,y)	Pdf Page 164 - 172
	example:	https://tinyurl.com/ty2rjxb7
	yr=[l988:1994];	
	sle=[8 12 20 22 18 24 27];	
	bar(yr,sle, 'r') – 'r' will color the bars red	
	x1abe1('Year')	
	ylabel(1Sales (Millions) 1)	
Plot a different type of plot	710001(200100 (Pdf Page 164 - 172
I.e. Horizontal Bar plot	bar(xaxis,yaxis)	https://tinyurl.com/ty2rjxb7
Stairs plot	stairs(xaxis,yaxis)	inteps.//tillyuri.com/ty21/xb/
Stem plot	stem(xaxis,yaxis)	
Plot a pie chart with given data	x = [20 20 20 20 20]	Pdf Page 165
	pie(x) <- should have 5 equal slices	https://tinyurl.com/ty2rjxb7
Plot a histogram	Command is >>hist(y)	Pdf Page 167
	,,,,	https://tinyurl.com/ty2rjxb7
	You can also do hist(y,3) to divide the histogram	
	into 3 equally spaced subranges	
	into 5 equally spaced subtailiges	

Name: Carlos F Revilla Label axis	Command is>> xlabel('x axis')	Type doc xlabel in command window
		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	You can do the same for y -> ylabel(' blah ')	
Import Data	Use function readtable in command window or scriptfile	Type doc readtable into command window
		Or find more info here:
	le readtable('filename');	https://tinyurl.com/xk3cxc35
Convert Array to table	In command window/ script file type:	Type doc arraytotable into command window
	Arraytotable(arrayName)	
Remove Variable names from tables	Use Function	Type doc removevars into command window
	removevars(tablename,{variableToRemove}) in commandwindow/ scriptfile	
Convert Columns from Tables to Arrays (column	Use .	More info here: https://tinyurl.com/2ut756ha
vector)	Example hw = TableName.VariableName (column header) this assign hw all values from	
	VariableName column into a column vector xby1	
Insert and place Variables into Tables	x =	Type doc movevars into command window
	movevars(tableName,'VariabletoInsert','After',1)	
	the 1 is indicating where to place the variable name	
	here it is being placed after the first 1 column so it	
	will be column 2	
Store Date	datetime(year value, month value, day value)	Type doc datetime into command window
	you can continue to add hour value minute value	
	and second value for more precise time	
Get length of time between dates	Use command between(intital date, final date)	Type doc between into command window
	This will return the value of time between both dates in correct format of time ie (months/ hours	https://tinyurl.com/267wu67t
	days etc)	Tittps://tillyall.com/20/wao/t

Find roots of polynomial	Use command roots(x)	Doc roots
	X being the the variable name of the stored polynomial	
Create a polynomial fit line	Use command polyval(p,x) <- p being the polyfit y value data and x being the domain of x values	Doc polyval
Create a good fit for your polynomial data	Use command polyfit(x,y,n) where x and y are your data from axis x and y and n is the degree of the polynomial	Doc polyfit