

How to use Microsoft Excel: regression analysis

Physics 23 Lab

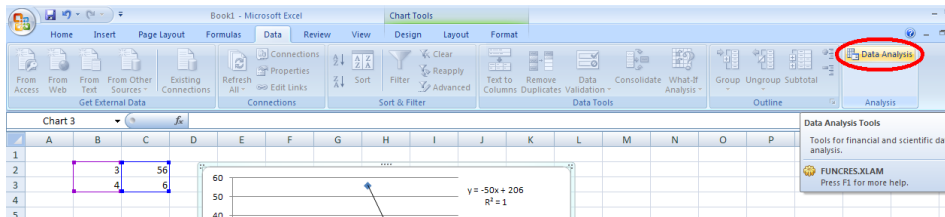
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Data tab

The screenshot shows the Microsoft Excel interface with the 'Data' tab selected in the ribbon. The ribbon includes options for 'Get External Data' (From Access, From Web, From Text, From Other Sources, Existing Connections), 'Connections' (Refresh All, Connections, Properties, Edit Links), and 'Sort' (Sort, Sort & Filter). The spreadsheet area shows a table with columns A through H and rows 1 through 6. A scatter plot is visible in the bottom right corner, with a blue arrow pointing to the plot area. The plot area is currently empty, suggesting that the data from the selected cells (B2:C3) has not yet been plotted.

	A	B	C	D	E	F	G	H
1								
2			3	56				
3			4	6				
4								
5								
6								

Data analysis



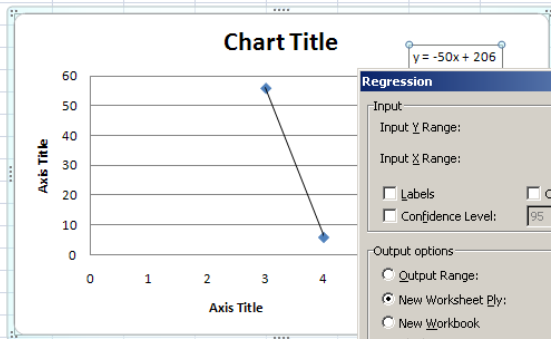
Regression

The screenshot shows the Microsoft Excel interface with the 'Data' tab selected. The 'Data Analysis' dialog box is open, and 'Regression' is highlighted in the list of analysis tools. The 'OK' button in the dialog box is also circled in red. In the background, a chart titled 'Chart 3' is visible, showing a scatter plot of data points from columns B and C. The data points are at (3, 56) and (4, 6).

	A	B	C	D	E	F
1						
2		3	56			
3		4	6			
4						
5						
6						
7						
8						


Regression x, y


3 56
4 6



Regression ?

Input


Input Y Range: 

Input X Range: 

Labels Constant is Zero

Confidence Level: %

Output options

Output Range: 

New Worksheet Ply:

New Workbook

Residuals

Residuals Residual Plots

Standardized Residuals Line Fit Plots

Normal Probability

Normal Probability Plots

OK

Cancel

Help

Regression output range

Regression [?]

Input

Input Y Range: → \$C\$2:\$C\$3

Input X Range: → \$B\$2:\$B\$3

Labels Constant is Zero

Confidence Level: 95 %

Output options

Output Range: []

New Worksheet Ply: []

New Workbook

Residuals

Residuals Residual Plots

Standardized Residuals Line Fit Plots

Normal Probability

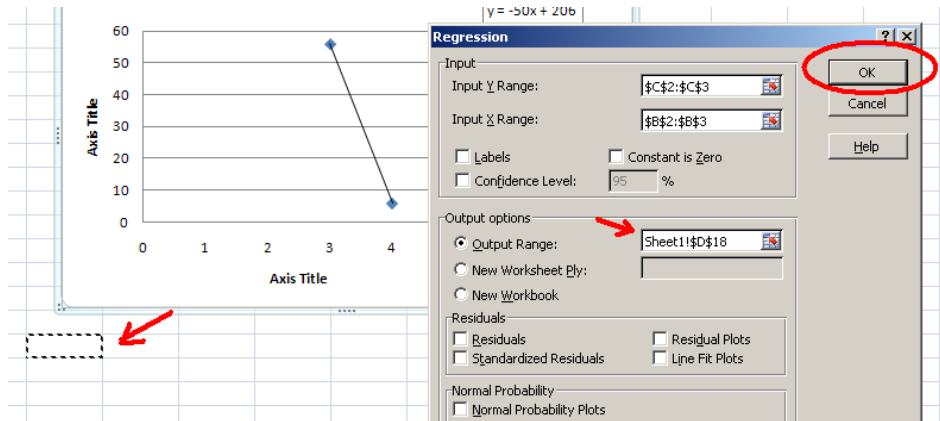
Normal Probability Plots

OK

Cancel

Help

Regression: OK



Regression: Standard error

