

Least Squares Regression Worksheets and Graphs

1. Use the Marginal Profit document as a guide to prepare worksheet data and graphs.
2. Some specific updates for the Least Squares Regression worksheets are:
 - a) to create text over multiple rows and columns, highlight the desired region ->format->cells->alignment->then check both wrap and merge
 - b) to add color to a cell, format->cells->pattern->select color
 - c) to create a superscript when creating text (used for x^2), format->font->check superscript, then uncheck it when done with the superscript.
3. Updates to create the charts with least squares regression models:
 - a) select only the data cells B7:C17, highlight the chart wizard and proceed to graph the actual data, save the graph with the procedure next->place chart as new sheet and type in the name Linear rather than use the default name chart1
 - b) after creating the scatterplot and when it appears on the screen, from the Chart menu (if the graph was saved as an object rather than as a new sheet, single left click the graph before the Chart menu will appear), select Add Trendline, select Linear, and click the Options tab to display both the linear equation and R^2 values, click OK to the modeled results
 - c) to resize any displayed headings or equations, highlight the desired material, format->cells->font and resize as wanted
 - d) to save the updated graph, right click on the graph->location->save with the same name just used, i.e. Linear.
4. To create an exponential least squares regression model, follow a similar procedure as described above but select Exponential when in the Add Trendline mode. Save the updated graph as Exponential.
5. To create a quadratic model, select Polynomial and Order 2 in the Add Trendline mode. Save the updated graph as Quadratic.
6. All models can be superimposed on a single graph by repeating steps 3-5 before saving the graph as Chart of all models.