

Please indicate your solutions clearly in the document using complete sentences and brief explanations. If a question has multiple parts, please label each one. The point is that you indicate to me what the solution is and how it relates to the context of the question being asked. See the example spreadsheet I posted for details on what I consider good form.

Email your Excel files to amohr@nebrwesleyan.edu by 11:59 pm on the due date. If you have additional written work to show, bring that with you to the next class period.

Profit Analysis

Use *technology* to solve problem 75 on page 53 in the text. (I recommend Excel, since it's a useful piece of software in general.) Graph all three functions together on the *same* axes. Include enough labels so that someone can understand the information contained in your graphs with little or no explanation (for a rough idea, see Example 1d on page 75 in the text).

The definitions of all the terms used in profit-and-loss analysis appear starting on page 48 in the text. A tutorial on graphing in Excel can be found at <http://www.youtube.com/watch?v=ITgT3YPDeLs>.

Curve Fitting

Curve fitting is the creation of a single function that approximates (hopefully well) a collection of real-world data. The data is usually shown as a scatterplot while the approximation is shown as a continuous curve (see Example 1d and 1e on page 75 in the text).

Use *technology* to solve problems 1 through 5 on page 97 in the text. (Again, I recommend Excel.) Graph each function on *separate* axes (but include the scatterplot on each one). Include enough labels so that someone can understand the information contained in your graphs with little or no explanation. The assignment looks long, but you should be able to make frequent use of copy-and-paste.

A tutorial on curve fitting in Excel can be found at <http://www.youtube.com/watch?v=0ienbLvFddQ>.