

Email your project 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.

Average Cost, Revenue, and Profit

Read the section “Application of the Quotient Rule” (we won’t actually be using the quotient rule) and Example 6 on page 163 text. Use this information to solve problems 101, 103, and 105 on pages 165 – 166 in the text. You should use WolframAlpha or the `nDeriv` command on your calculator to compute derivatives.

Curve Fitting

Use spreadsheet software to solve questions 2 – 5 on page 195 in the text. 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.

You will need to use the forecast feature to extend your graphs over the entire interval $[0, 500]$. See <http://www.youtube.com/watch?v=0ienbLvFddQ&t=3m53s> for a quick description. You may use WolframAlpha to compute derivatives (you will have to use it for question 4).