

Engin 103
Spring '07
Meeting #9: Feb. 27, 2007

In CW4 we tried the linear model by setting $a=0$ ('a' was the coefficient of the quadratic term, in our spreadsheet it is located in cell \$C\$3). Then we found the best linear model by doing a similar process in Excel as how we found the best quadratic model. The only change was within the Solver dialog window, \$C\$3 should not be one of the parameters for Solver to change in order to minimize the s parameter contained in \$F\$3.

We also tried the cubic model: $d*x^3+a*x^2+b*x+c$, which requires an additional cubic term with an additional parameter d. Changes are: 1) Adding a guess of 1 for d in \$C\$6; 2) Modify the formula in D3; 3) _____; 4) Modify the formula in B9; 5) Copy this formula onto B10-B47; 6) Execute Solver, with this change _____

Suggested items to write in the Engin 103 logbook:

- 1) Write in your own words the summary for finding the best linear and cubic model above, note that there are two blank spaces you need to fill in.**
- 2) Describe in your own words what could be the application of the method we are doing in these CW3-5, in addition for doing Project 1**