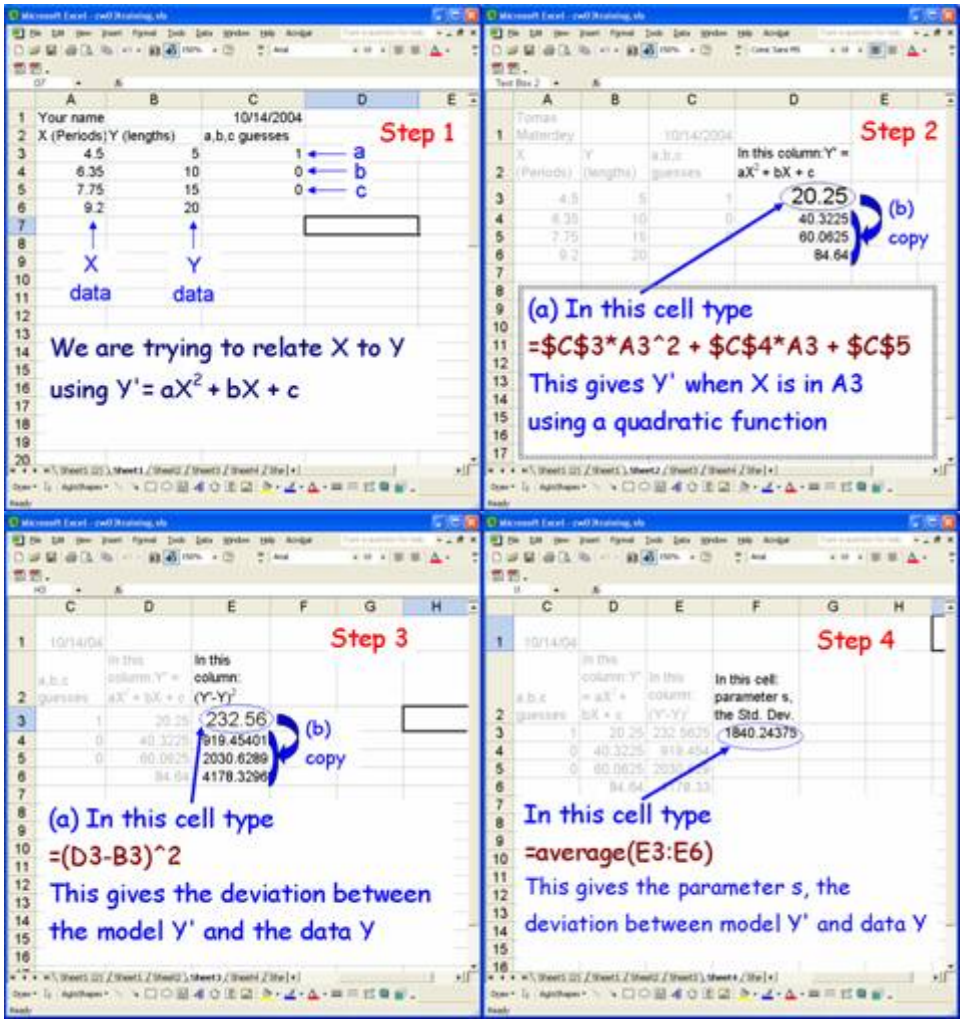
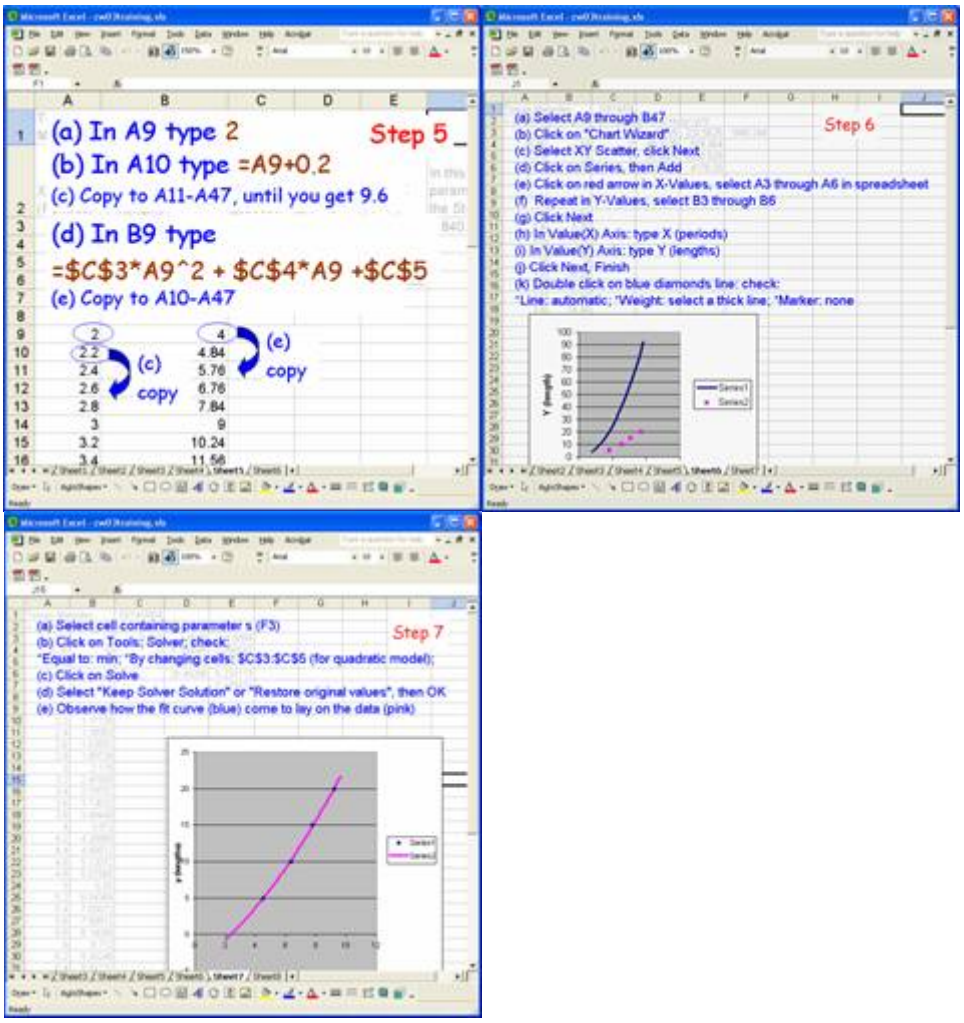
Engin 103
Fall ‘06
Meeting #8: Sept. 28, 2006

How to obtain a model? CW3 can be done by following these 7 steps. The process consists of using Solver (get it through Tools/Add-ins if needed) to minimize a “standard deviation” parameter s by allowing the polynomial coefficient to vary. After using Solver, the final values for a, b, c determines our quadratic model that represents our pendulum.





Suggested items to write in the Engin 103 logbook:

1) **Write in your own words what is a process of data modeling from start to finish, as done using Excel**
2) **What need to be done if you would like to change the model (quadratic) into a different one (for example: linear or cubic) to see if you can get a better one?**