City Semester 13-14 Ms. Nelson

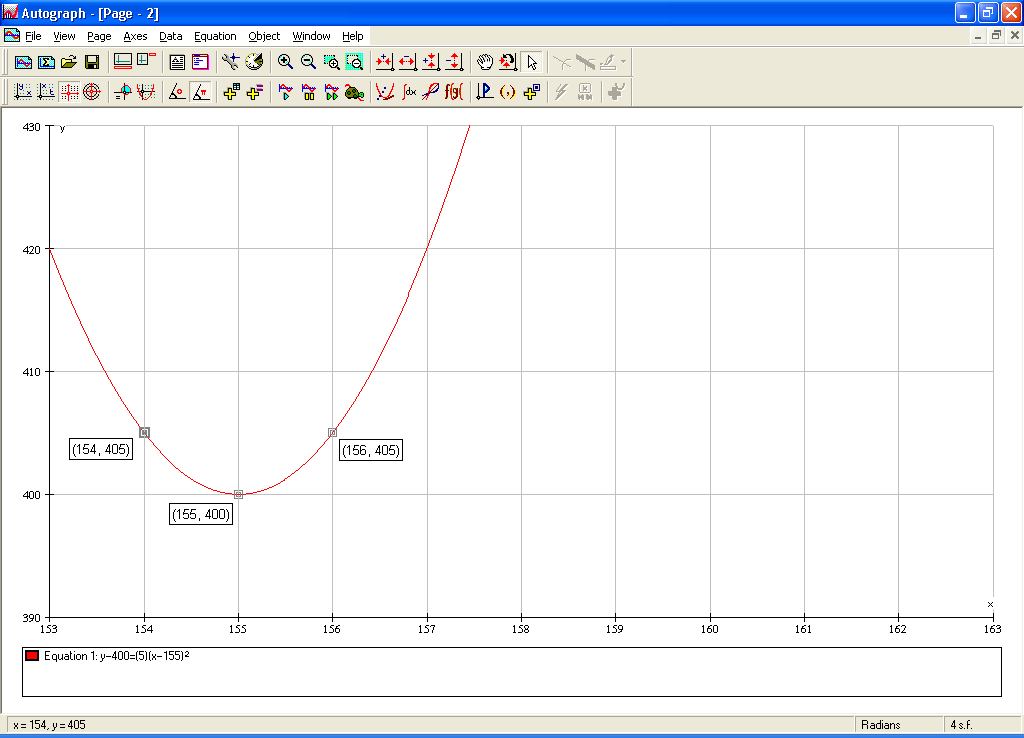
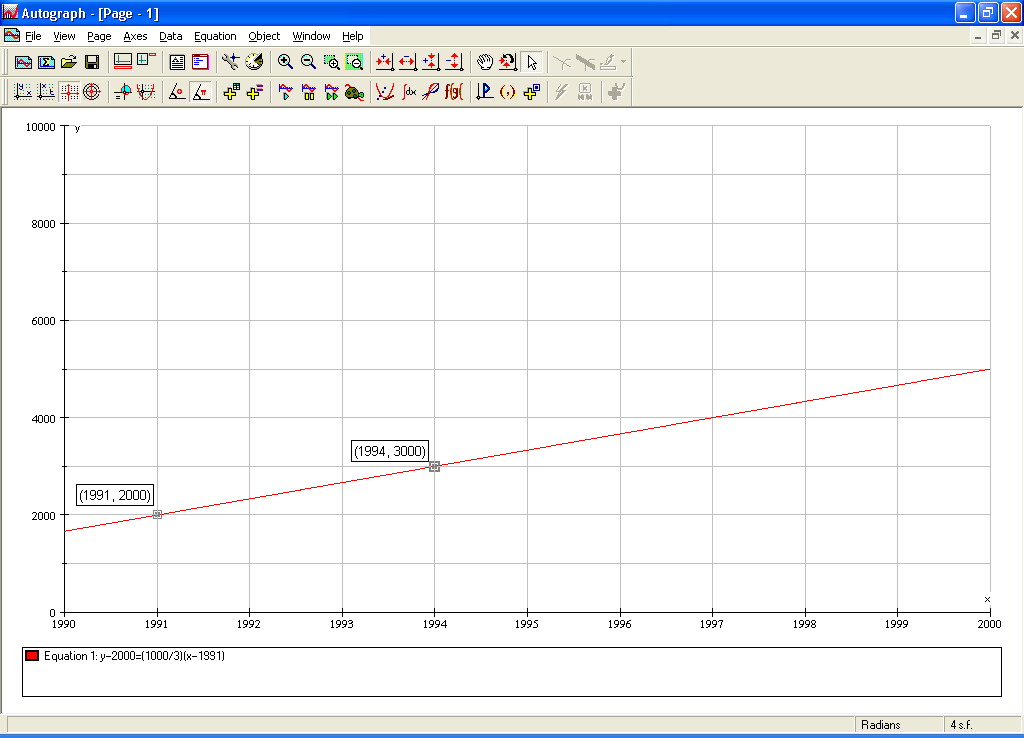
# PROBLEM SET 2-1: Curve Fitting with Linear & Quadratic Functions

For #s 1 and 2: **For more information on how to fit a linear or quadratic equation to a data set by hand, watch the following video (made by my friend Nils). Click “login as guest” on the Deerfield Moodle page.**

<https://dalearn.deerfield.edu/pluginfile.php/13674/mod_resource/content/1/Curve_Fitting_with_Linear_and_Quadratic_Functions_PPT_video_.mp4>

1. Find an equation of the line in 2. Find an equation of a parabola

y = a(x-h) + k form through the points. in y = a(x-h)2+k form through the points.

For #s 7-10: **For more information on how to fit a linear or quadratic equation to a data set in Fathom, watch the following video (also made by Nils – sorry, I know the audio is bad, turn it way up.)**

<http://www.youtube.com/watch?v=nxmXPhdclsw>

🖳 Open up “2-1-7, 8, 9, 10 (Fathom)” found in the Unit 2 Data Sets folder. For each problem, find an equation of a line [in y = a(x-h)+k form] or a parabola [in y = a(x-h)2+k form] that models the given scatterplots by following the instructions in the video. Document your work writing down the point you chose and the calculations that led to your equations.

**I know these are misnumbered…had to keep in line with the video!**

7. 8. 9. 10.   


Some problems courtesy of Nils Ahbel – used with permission