

Lab #1

- Do experiment 3.6 " The Computer May Lie" on page 25 of your textbook, preferably using the [Mathematica notebook](#) with the same title. (Alternatively, you may Use the Function Iterator available at the [Dynamical Systems and Technology Project](#) web site). Choose "generic" seeds, such as 0.836, not whole numbers. Write an essay describing your findings, answering the questions posed in the Results section, and questions 1 and 2 on page 26. Please **do not** list or print out the entire orbit for each of your chosen seeds. Rather, simply give the seed and a short description of the outcome (tends to a fixed point, goes to infinity, etc.) In each case, the computer is not telling the whole story. Do you see what else is happening? Comment on this in your essay after explaining what the computer shows.

Please be sure to review the Lab Report Expectations.

- The Dynamical Systems and Technology Project web site is the work of Professor Bob Devaney at Boston University, and the Mathematica notebooks were written by Sebastian Marotta.