

Numerical Analysis - Homework 10

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Homework Problems

Try to write your own code to explore the Logistic Map. Following homework problem #12 where you are asked to solve the logistic equation and investigate convergence.

$$x_{n+1} = cx_n(1 - x_n)$$

- Chapter 3.5 problem 7
- Go back and choose 2 problems from previous assignments that you struggled with and redo those problems. Get help if you need it.
- ** NOTE: If you don't have any problems that you struggled with then please read the section on the Secant Method, do example 3.3.1 in four ways: bisection, Newtons, Secant, and a fixed point iteration that you define. Which method converges fastest?
- SUPER EXTRA See if you can code up the complex valued Newton Fractal example.