4/12/18 – Thursday

Numerical Methods - Spring '18

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Lab #3

Problem 1:

Write a function that accepts a real number x and an error tolerance epsilon and returns the Taylor approximation of e^x that has a relative approximate error less than epsilon. Check that epsilon is a positive number otherwise return an error message.

My Solution:

See taylorapproxoepsilon.m

Problem 2:

Write a function that accepts a relative approximate tolerance epsilon and return the Fibonacci estimate of the Golden Ratio that has relative error less than epsilon. Check that epsilon is positive, otherwise return an error message.

My Solution:

See goldenrationfibapprox.m