

assignment4_fall_2022

November 22, 2022

Assignment 4: MATH 425/625 Numerical Analysis

Your Name

Question 1: Use the TensorFlow library to implement the **modified** Newton's method for finding the non-simple root (i.e., multiplicity $m > 1$) of $f(x) = e^x - x - 1$. You should use TensorFlow for automatic differentiation in order to compute the derivatives.