

Homework Assignment 2 - Research Methods: Numerical Methods

Due Nov 30, 2025

1. Do the following problems from Chapter 5, 6 and 7 exercises of the textbook.
 - 5.1
 - 6.10
 - 7.3
 - 7.10
2. Write Newton's method code using MATLAB or Python or any language you feel comfortable to find the solutions accurate to within 10^{-5} for the following equation:

$$\ln(x - 1) + \cos(x - 1) = 0$$