

ECEn 563
Numerical Methods

Homework #1
Due Jan. 12, 2025

Upload a single PDF file in Learning Suite. For each problem, include your code, numerical results, plots as needed, and brief comments on your observations about the results.

1. Problem 3.2 [Numerical derivatives]
2. Problem 3.3 [Numerical integration]
3. Problem 3.4 [Polynomial fitting] What happens to the curve fit as you increase the polynomial order to 10-20 or higher?