

Problem Set 4
Numerical Analysis, MATH 3377/6577
Due Wednesday, November 6, 2024

Do the following problems from the text, *Numerical Analysis*, 10th edition, by Burden, Faires and Burden.

Each item is worth 10 points.

1. Section 4.1: 1a and 2b
2. Section 4.1: 3a and 4b
3. Section 4.1: 22, Use 3-point endpoint formulas at the end points and 3-point midpoint formulas elsewhere.
4. Section 4.2: 1b
5. Section 4.2: 5
6. Section 4.2: 11a,b
7. Section 4.3: 1b, 3b, 5b, 7b
8. Section 4.3: 22
9. Section 4.4: 1c, 3c, 5c
10. MATLAB Exercise:
 - a) Solve problem 17 of Section 4.4 using ALG041.

For Graduate Students:

11. Section 4.3: 26
12. Section 4.4: 21. Use ALG041.