# MACM 316 - Homework 4

- Problems are not to be submitted. The related quiz will be given in class.
- Feel free to use Canvas discussions but please keep in mind that these forums are open.

### A. Bisection

Section 2.1, Ex 3

Section 2.1, Ex 17

Section 2.1, Ex 20

# B. Newton's method

Section 2.3, Ex 1

Section 2.3, Ex 5\*

Section 2.3, Ex 15\*

## C. Modified Newton's method

Section 2.4, Ex 1\*

Section 2.4, Ex 3\*

Section 2.4, Ex  $5^*$ 

Section 2.4, Discussion question 2

#### D. Convergence

Section 2.4, Ex 7

Section 2.4, Ex 8

Section 2.4, Ex 14

<sup>\*:</sup> Use  $|p_n - p_{n-1}| < \text{tol as your stopping criteria, with tol provided in the question.}$