

PROBLEM SET 2

MTH9831

ALL Problems and Numerical Projects are to be handed in before the beginning of class on on Dropbox [HERE](#). **The solutions should be done in teams. See MFE forum for the teams.** The solutions file for the problem should a pdf file with the following format:

`team#_mth9831_prob2.pdf`

The theory parts should be **handwritten**.

The solutions file for the numerical projects should be a jupyter notebook with the following format:

`team#_mth9831_prob2.ipynb`

The codes should be commented according to the questions.

Problems

- (1) Exercise 4.6
- (2) Exercise 4.11
- (3) Exercises 4.12
- (4) Exercise 4.13
- (5) Exercise 4.16
- (6) Exercise 4.20
- (7) Read Section 5.1

Numerical Projects

- (1) Project 4.2
- (2) Project 4.3
- (3) Project 4.4