

PROBLEM SET 1

MTH9831

ALL Problems and Numerical Projects are to be handed in before the beginning of class on **Wednesday September 3** on Dropbox [HERE](#). **The solutions should be done in teams. See MFE forum for the teams.** The solutions file for the problem should be a pdf file with the following format:

`team#_mth9831_prob1.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_prob1.ipynb`

The codes should be commented according to the questions.

Problems

- (1) Exercise 3.6
- (2) Exercise 3.7
- (3) Exercise 3.11
- (4) Exercise 3.13
- (5) Read Section 4.1 and Review Section 2.4.

Numerical Projects

- (1) Project 3.3
- (2) Project 3.4
- (3) Project 3.5