# Calculus A(1): Homework 7

Each assigned exercise is worth 20 points. The bonus exercise is optional. We may (or may not) decide to grade the bonus and use it to replace one assigned exercise (if it improves your total grade). We refer to Thomas' Calculus book (whose PDF is available on the weblearn) for the exercises given by a paragraph and number. If you are using your own Thomas' Calculus book, make sure that the numbering of exercises is identical with the PDF.

## Routine exercises (do not hand-in)

§4.8, Exercises 9, 12, 33, 60, 61, 66, 93
§5.2, Exercises 1, 3, 9, 17, 25
§5.3, Exercises 1, 15, 21, 22, 63, 65, 71, 73
§5.4, Exercises 8, 20, 26, 27, 34, 55, 61
§5.5, Exercises 2, 4, 10, 50
§5.6, Exercises 8, 12, 24, 30, 33, 73, 80, 81, 84
p. 394, Exercise 23

## Assigned exercises (hand-in)

A1. §5.3 Exercises 77 (For the notion of lower (resp. upper) Riemann sum $L$ (resp. $U$), refer to my lectures notes or the book p. 346.)
A2. §5.4 Exercise 68
A3. §5.5 Exercise 52
A4. §5.6 Exercise 78
A5. §5.6 Exercise 87

## Bonus exercise

B1. p. 392 Exercise 8