

## MATH4060 Exercise 1

**Due Date:** Sept 18, 2018.

The questions are from Stein and Shakarchi, *Complex Analysis*, unless otherwise stated.

**Chapter 1.** Exercise 8, 13, 14, 19, 21, 22.

**Chapter 2.** Exercise 10, 13, 15.

**Chapter 3.** Exercise 12, 14, 16, 17.

### Remarks.

Chapter 1, Exercise 8: The definitions of  $\frac{\partial}{\partial z}$  and  $\frac{\partial}{\partial \bar{z}}$  can be found on p.12.

Chapter 2, Exercise 10: Some relevant material can be found in Sections 5.1 and 5.2 of Chapter 2.

Chapter 2, Exercise 13: Some relevant material can be found in Section 4 of Chapter 2.

Chapter 2, Exercise 15: Some relevant material can be found in Section 5.4 of Chapter 2.