

MATH4060 Exercise 1

Due Date: Sept 20, 2016.

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 14, 16, 17, 22.

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.