

MA 713
Reading and Exercises
Week ending April 1

Reading:

Class 23 (3/28): Ahlfors pp. 148–152

Class 24 (3/30): Ahlfors pp. 152–161

Class 25 (4/1): Ahlfors pp. 162–168

Exercises to be submitted for grading on Friday, April 1:

These exercises come from the list of pending exercises that was posted last week.

- Additional Exercise 6: Suppose that $f(z)$ is entire and that the harmonic function $u(x, y) = \operatorname{Re}[f(z)]$ is bounded above on \mathbb{R}^2 , i.e., there exist an M such that $u(x, y) \leq M$ for all $(x, y) \in \mathbb{R}^2$. Show that $u(x, y)$ is constant on \mathbb{R}^2 .
- Ahlfors Exercise 5 on p. 130
- Ahlfors Exercises 1–3 on p. 133