

# Real Analysis I

Fall 2019

## Homework 4

Exercise session: Wed 2 October, 10:15 - 12:00, Exactum CK111; Emil Airta, [emil.airta@helsinki.fi](mailto:emil.airta@helsinki.fi).

1. Can be reduced to the boundedness of the usual Hardy-Littlewood maximal function in  $\mathbb{R}$ .
2. The distributional formula of Exercise 3.3.
3. A part of the proof is based on the previous exercise.
4. Exercise 3.3 again.