Analysis Meeting I

November 6, 2025

Study the following topics out of Rudin or Hunter and we will discuss them

- 1. Sequences, subsequences and the concept of limit
- 2. Monotone sequences: Bounded monotone sequences converge (with proof)
- 3. The Bolzano-Weierstrass theorem: Bounded sequences have at least a convergent subsequence (with proof)
- 4. Cauchy sequences and completeness of the reals: Real values Cauchy sequences are convergent. (with proof)
- 5. The concept of the liminf and lim sup and their use. (See also handwritten notes)