

Introduction to Analysis I (Fall 2025): Homework 8

- LSIRA stands for the textbook (Lindstrøm: Spaces An Introduction to Real Analysis).
- You **must email your submission as a PDF file** to kbala@wsu.edu. You are welcome to write answers by hand, and scan the writings.
- **If you use \LaTeX to typeset your homework submission, you will get 5 extra points!** You could use a \LaTeX locally on your computer or use a web service, e.g., Overleaf. A template for typesetting your solutions is posted on the course web page. Sorry, but using MS Word does not count here!
- Your file name should identify you in the following manner. If you are Ned Gerblansky, you should name your file NedGerblansky_Hw8.pdf (and **NOT** Ned_Gerblansky_Hw8.pdf or EdGerblansky* or Nedgerblansky*..., or Hw8_NedGerblansky..., or ...). You are welcome to add anything more to your filename *after* these terms, e.g., NedGerblansky_Hw8_Math401.pdf. Please avoid white spaces in the file name; TIA!
- **Begin the SUBJECT of your email submission with the same FirstnameLastname, e.g., “NedGerblansky Hw8 submission”.**
- The total points (given in parentheses) add up to 110.
- **This homework is due in my email inbox by 10:00 PM on Thursday, October 30.**

1. (25) LSIRA Section 3.3 Problem 7 (Page 58).
2. (30) LSIRA Section 3.3 Problem 8 (Page 58).
3. (30) LSIRA Section 3.3 Problem 11 (Page 59).
4. (25) LSIRA Section 3.4 Problem 2 (Page 62).