Introduction to Analysis I (Fall 2025): Homework 5

- 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. Sorry, but using MS Word does not count here!
- Your file name should identify you in the following manner. If you are Leopold Scotch Butters, you should name your submission LeopoldButters_Hw5.pdf (and NOT Leopold_Butters* or LeoButters*, or Hw5_LeopoldButters..., or ...). You are welcome to add anything more to your filename *after* these terms, e.g., LeopoldButters_Hw5_Math401.pdf. Please avoid white spaces in the file name:-).
- Begin the SUBJECT of your email submission with the same FirstnameLastname, e.g., "LeopoldButters Hw5 submission".
- The total points (given in parentheses) add up to 100.
- This homework is due in my email inbox by 11:59 PM on Thursday, September 25.
- 1. (25) LSIRA Section 2.2 Problem 5 (Page 36).
 Also, is this sequence Cauchy? Justify your response.
- 2. (30) LSIRA Section 2.2 Problem 7 (Page 36).
- 3. (45) LSIRA Section 2.2 Problem 9 (Pages 36–37).