

# ESC195 Midterm 2 Review

QiLin Xue

June 30, 2024

## Contents

1 Sequences and Series	1
------------------------	---

## 1 Sequences and Series

A sequence  $\{a_n\}$  is:

- increasing iff  $a_n < a_{n+1}$
- non-decreasing iff  $a_k \leq a_{n+1}$
- decreasing iff  $a_n > a_{n+1}$
- non-increasing iff  $a_n \geq a_{n+1}$

Mnemonic:	Hanhee Lee
Example 1:	Hanhee Lee
Definition:	Hanhee Lee
Theorem:	Hanhee Lee
Tip:	Hanhee Lee
Intuition:	Hanhee Lee
Warning:	Hanhee Lee