

Sequences and Summations

CS/APMA 202

Rosen section 3.2

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Definitions

- Sequence: an ordered list of elements
 - Like a set, but:
 - Elements can be duplicated
 - Elements are ordered

Sequences

- A sequence is a function from a subset of \mathbb{Z} to a set S
 - Usually from the positive or non-negative ints
 - a_n is the image of n
- a_n is a term in the sequence
- $\{a_n\}$ means the entire sequence
 - The same notation as sets!