



EXAM I REVIEW

TOPICS TO KNOW:

- Condition I, II, III
- basics of sequences: definition, graphing sequences, adjectives describing sequences
- convergent/divergent sequences, limit of a convergent sequence
- basic examples of convergent sequences, basic examples of divergent sequences
- Limit Laws (and how to use them)
- Squeeze Theorem (and how to use it)
- Monotonic Bounded Theorem (and how to use it)
- Geometric Progression Theorem
- Test for Divergent Sequences
- basics of series: sequence of partial sums, definition of a series
- convergent/divergent series and relation to sequence of partial sums, limit of a convergent series
- basic examples of convergent series, basic examples of divergent series
- additive properties of series (and how to use them)
- Geometric Series Test
- Test for Divergent Series
- Harmonic Series
- Direct Comparison Test, Limit Comparison Test (and how to use them)