

## REVIEW FOR MATH 2202 midterm, October 2008

Chapters covered from Bartle -Sherbert :  
1, 2, part of 3

### DEFINITIONS:

1. One to one, onto functions ; inverse images of functions; mathematical induction; finite, countable, uncountable sets.
2. Field axioms ( negative; zero; identity; commutative, associative and distributive law); order axioms; absolute value; supremum and infimum; completeness;
3. Limit of a sequence; boundedness.

### THEOREMS:

1. Well ordering property.
  2. Archimedean thm. and corollaries; density thm.; nested intervals thm.
  3. Uniqueness of limits of sequences; convergence and boundedness of sequences; theorem on operations on sequences and limits; squeeze theorem.
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