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Real Analysis by William Trench [T]. A note about the style of some of the proofs: Many proofs traditionally done by contradiction, I prefer to do by a direct proof or by contrapositive. While the book does include proofs by contradiction, I only do so when the contrapositive statement

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seemed too awkward, or when

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k with $s = \lim_{k \rightarrow \infty} s_k$. Solution: True 3. A sequence f_n converges to f if and only if every subsequence f_{n_k} converges to f . Solution: True 4. A set K in a metric space $(X; d)$ is compact if and only if K is totally bounded and complete. Solution: True 5. If f_n is a sequence of nondecreasing real numbers that is bounded above, then $\lim_{n \rightarrow \infty} f_n = \sup f_n$...

Math 4317 : Real Analysis I Mid-Term Exam 2 1 November 2012

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These notes are for the basic real analysis class. (The more advanced class is M365C.) They were written, used, revised and revised again and again over the past five years. The course has been taught 12 times by eight different instructors. Contributors to the text include both TA's and instructors: Cody Patterson, Alistair Windsor, Tim

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