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Math 312, Intro. to Real Analysis: Final Exam: Solutions Stephen G. Simpson Friday, May 8, 2009 1. True or false (3 points each). (a) For all sequences of real numbers  $(s_n)$  we have  $\liminf s_n \leq \limsup s_n$ . True.

## Math 312, Intro. to Real Analysis: Final Exam: Solutions

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## Introduction to Real Analysis 4th Edition Bartle Solutions

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Real Analysis Problems Cristian E. Guti errez September 14, 2009 1. 1 CONTINUITY 1 Continuity Problem 1.1 Let  $r_n$  be the sequence of rational numbers and  $f(x) = \sum_{n: r_n < x} 1/2^n$ . Prove that 1.  $f$  is continuous on the irrationals. 2.  $f$  is discontinuous on the rationals. 3. Calculate  $\int_0^1 f(x) dx$ :

## Real Analysis Problems - Temple University

Solution: This is known as Bernoulli's inequality. Let  $a \in \mathbb{R}$  with  $a > -1$ . We proceed by induction. For  $n = 0$ ,  $(1 + a)^0 = 1 = 1 + (0)a$  which is trivially true. Assume that the inequality is true for some  $k \geq 0$ . Then  $(1 + a)^k \geq 1 + ka$ . Consider the case of  $k+1$ . Since  $a > -1$ , then  $1+a > 0$ . By assumption,  $(1+a)^k \geq 1+ka$ . Hence,  $(1+a)^{k+1} = (1+a)(1+a)^k \geq (1+a)(1+ka)$ .

## Math 4317 : Real Analysis I Mid-Term Exam 1 25 September 2012

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Library of Congress Cataloging-in-PublicationData Trench, William F. Introduction to real analysis / William F. Trench p. cm. ISBN 0-13-045786-8 1.

## **INTRODUCTION TO REAL ANALYSIS - Trinity University**

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is Rosenlicht's Introduction to Analysis [R1]. There is also the freely downloadable Introduction to 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

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Using a clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. This book is intended for those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

## **"Introduction to Real Analysis" by William F. Trench**

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## **SAMPLE QUESTIONS FOR PRELIMINARY REAL ANALYSIS EXAM**

4. (a) Suppose  $f_n: A \rightarrow \mathbb{R}$  is uniformly continuous on  $A$  for every  $n \in \mathbb{N}$  and  $f_n \rightarrow f$  uniformly on  $A$ . Prove that  $f$  is uniformly continuous on  $A$ . (b) Does the result in (a) remain true if  $f_n \rightarrow f$  pointwise instead of uni- formly? Solution. • (a) Let  $\epsilon > 0$ . Since  $f_n \rightarrow f$  converges uniformly on  $A$  there exists  $N \in \mathbb{N}$  such that  $|f_n(x) - f(x)| < \epsilon/3$  for all  $x \in A$  and  $n > N$ .

## **RealAnalysis Math 125A, Fall 2012 Sample Final Questions**

Stromberg's book gives an excellent treatment of real analysis. Making no assumption that the reader is familiar with "baby real variables," it starts from the beginning and develops the Lebesgue theory of measure and integration, then applies the techniques to a study of Fourier analysis.

## **Amazon.com: An Introduction to Classical Real Analysis ...**

This free online textbook (OER more formally) is a course in undergraduate real analysis (somewhere it is called "advanced calculus"). The book is meant both for a basic course for students who do not necessarily wish to go to graduate school, but also as a more advanced course that also covers topics such as metric spaces and should prepare students for graduate study.

## **Basic Analysis: Introduction to Real Analysis**

This book provides a solid introduction to real analysis in one variable. The first two chapters introduce the basics of set theory, functions and mathematical induction. Also, the properties of real numbers are introduced here "borrowing" the concept and properties of field from abstract algebra.

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Introduction to Real Analysis: An Educational Approach is an ideal book for upper- undergraduate and graduate-level real analysis courses in the areas of mathematics and education. It is also a valuable reference for educators in the field of applied mathematics. Product Identifiers. Publisher.

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