

real analysis exam solutions pdf

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

Let $E = \mathbb{Q} \cap [0, 1]$. E is an infinite subset of a countably infinite set, hence is countably infinite. In other words, there exists a bijective function

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This section includes practice midterms, and a practice final exam for this course, with solutions.

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2 FINAL EXAMINATION SOLUTIONS, MAS311 REAL ANALYSIS I Now if e is a rational number, then $e = p/q$ with natural numbers p and q . We have, from (1),

FINAL EXAMINATION SOLUTIONS, MAS311 REAL ANALYSIS I

Math 312, Intro. to Real Analysis: Midterm Exam #2 Solutions Stephen G. Simpson Friday, March 27, 2009 1. True or False (2 points each) (a) Every monotone sequence of real numbers is convergent.

Math 312, Intro. to Real Analysis: Midterm Exam #2 Solutions

REAL ANALYSIS QUALIFYING EXAM SOLUTIONS September 20, 2007 A passing grade is 6 problems done completely correctly, or 5 done completely correctly

REAL ANALYSIS QUALIFYING EXAM SOLUTIONS - uvm.edu

True or False (1 point each) 1. The set \mathbb{R}^n with the usual metric is a complete metric space. Solution: True 2. A sequence f_n converges to f if and only if f_n is a Cauchy sequence and there exists a subsequence f_{n_k} with $f_{n_k} \rightarrow f$. Solution: True 3. A sequence f_n converges to f if and only if every subsequence f_{n_k} converges to f .

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

SAMPLE QUESTIONS FOR PRELIMINARY REAL ANALYSIS EXAM VERSION 2.0 Contents 1. Undergraduate Calculus 1 2. Limits and Continuity 2 3. Derivatives and the Mean Value Theorem 3 4. Infinite Series 3 5. The Riemann Integral and the Mean Value Theorem for Integrals 4 6. Improper Integrals 5 7. Uniform Continuity; Sequences and Series of Functions 6 8 ...

SAMPLE QUESTIONS FOR PRELIMINARY REAL ANALYSIS EXAM

Math 35 Winter 2007 Real Analysis Final Exam Wednesday, March 7 Your name (please print): Instructions: This is an open book, open notes, take home exam. You can also use any books you like. If you have any questions please contact me in person or via internet. Use of calculators is not permitted. You must justify all of your answers to receive

Math 35 Winter 2007 Real Analysis Final Exam

RealAnalysis Math 125A, Fall 2012 Sample Final Questions 1. Define $f : \mathbb{R} \rightarrow \mathbb{R}$ by $f(x) = x^3 + x^2$. Show that f is continuous on \mathbb{R} . Is f uniformly continuous on \mathbb{R} ? Solution. To simplify the inequalities a bit, we write $x^3 + x^2$

RealAnalysis Math 125A, Fall 2012 Sample Final Questions

1 REAL ANALYSIS 1 Real Analysis 1.1 1991 November 21 1.(a) Let f_n be a sequence of continuous, real valued functions on $[0;1]$ which converges uniformly to f . Prove that $\lim_{n \rightarrow \infty} \int_0^1 f_n(x) dx = \int_0^1 f(x) dx$ for any sequence f_n which converges to f .

Problems and Solutions in REAL AND COMPLEX ANALYSIS

Chapter 1 Spring 2011 1.1 Real Analysis A1. (a) $\mathbb{C}^1(Z)$ is separable. A countable set whose finite linear combinations are dense is $\{e_n\}_{n \in \mathbb{Z}}$, where e_n has a 1 in the n th position and is 0 everywhere else. If $x \in \mathbb{C}^1(Z)$, then the sums $\sum_{k=-N}^N x_k e_k$ approximate x arbitrarily well in the norm as $N \rightarrow \infty$ since

Analysis Qualifying Exam Solutions - University of Utah

TO REAL ANALYSIS William F. Trench Andrew G. Cowles Distinguished Professor Emeritus Department of Mathematics Trinity University San Antonio, Texas, USA wtrench@trinity.edu This book has been judged to meet the evaluation criteria set by the Editorial Board of the American Institute of Mathematics in connection with the Institute's Open ...

INTRODUCTION TO REAL ANALYSIS - Trinity University

Real Analysis Fall 2004 Take Home Test 1 SOLUTIONS 1. Use the definition of a limit to show that (a) $\lim_{n \rightarrow \infty} \frac{1}{n} \sin n = 0$ Proof. Let $\epsilon > 0$ be given. Define $N >$

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