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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 uniformly?

Solution. • (a) Let $\epsilon > 0$. Since $f_n \rightarrow f$

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converges uniformly on A there exists $N \in \mathbb{N}$ such that $|f_n(x) - f(x)| < \epsilon$ for all $x \in A$ and $n > N$.

Real Analysis Math 125A, Fall 2012 Sample Final Questions

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Problems and Solutions in Real Analysis | Series on Number ...

Real Analysis Problems Cristian E. Gutierrez September 14, 2009 1. 1
CONTINUITY 1 Continuity Problem 1.1

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Let $\{r_n\}$ be the sequence of rational numbers and $f(x) = \sum_{n=1}^{\infty} \frac{1}{2^n} \chi_{\{r_n < x\}}$.
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

Selected Problems in Real Analysis (with

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solutions) Dr Nikolai Chernov Contents 1
Lebesgue measure 1 2 Measurable
functions 4 3 Lebesgue integral:
definition via simple functions 5 4
Lebesgue integral: general 7 5 Lebesgue
integral: "equipartitions" 17 6 Limits of
integrals of specific functions 20 7 Series
of non-negative functions 31

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Selected Problems in Real Analysis Contents

by means of problem-solving, to calculus on the real line, and as such, serves as a perfect introduction to real analysis. To achieve their goal, the authors have carefully selected problems that cover an impressive range of topics, all at the core of the subject. Some problems are

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genuinely difficult, but solving them will be

Problems in Real Analysis

Solution Manual for Introduction to Real Analysis - 4th Edition Author(s): Robert G. Bartle, Donald R. Sherbert This solution manual have answer for chapters 1, 2, 3 ...

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(PDF) Solution Manual Introduction to Real Analysis 4th ...

Problems and Solutions in Real and
Complex Analysis, Integration,
Functional Equations and Inequalities. by
Willi-Hans Steeb International School for
Scientific Computing at University of
Johannesburg, South Africa. Preface. The

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purpose of this book is to supply a collection of problems in analysis.

Problems and Solutions

1.1 1991 November 21 1 REAL ANALYSIS

Solution: For $n = 1, 2, \dots$, define $A_n = \{x \in X : |f(x)| < n\}$. Clearly, $A_1 \subset A_2 \subset \dots$, $\bigcup_{n=1}^{\infty} A_n = X$ and each A_n is measurable (why?).³ Next, define $A_0 = \{x \in X : f(x) =$

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$0 \in A$ and $A \cap B = \emptyset$: Then $X = A \cup B$
 $0 \in A \cup B$ is a disjoint union, and $Z \cap X = \emptyset$
 $A \cup B = Z \cap A \cup Z \cap B = Z \cap A \cup Z \cap B$: (2)

Problems and Solutions in EAL AND COMPLEX ANALYSIS

Some of the problems are assigned in
the textbook for this course: Rudin,
Walter. Principles of Mathematical

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Analysis (International Series in Pure and Applied Mathematics) . 3rd ed. McGraw-Hill, 1976.

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Adam Lott William Swartworth Matthew
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UCLA Analysis Qualifying Exam

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Solutions

Abstract. These are some notes on introductory real analysis. They cover the properties of the real numbers, sequences and series of real numbers, limits of functions, continuity, differentiability, sequences and series of functions, and Riemann integration. They don't include multi-variable

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calculus or contain any problem sets.

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Igor Yanovsky, 2005 2 Disclaimer: This handbook is intended to assist graduate students with qualifying examination preparation. Please be aware, however, that the handbook might contain, and almost certainly contains, typos as well as incorrect or inaccurate solutions. I can

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