

# Real Analysis Homework 1 Department Of Mathematics

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## Real Analysis Homework 1 Department

Real Analysis Homework: #1 Yingwei Wang \* Department of Mathematics, Purdue University, West Lafayette, IN, USA 1  
Banach space Question: Let  $(x_n) \subset X$  be a Banach space, and  $\sum_{n=1}^{\infty} \|x_n\|$  is convergent. Proof that

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## Real Analysis Homework: #1 - [PDF Document]

REAL ANALYSIS I HOMEWORK 1 5 Let  $C := \bigcap_{n=1}^{\infty} I_n$  be the intersection of all the elementary sets  $I_n$ . Show that  $C$  is compact,

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uncountable, and a null set. By definition, each  $I_n$  is the union of finitely many closed intervals, so is closed. And since for any choice of  $a$

### **REAL ANALYSIS I HOMEWORK 1 - University of Minnesota**

Homework 1 Real Analysis Joshua Ruiter March 23, 2018 Note on notation: When I use the symbol  $\hat{\phantom{x}}$ , it does not imply that the subset is proper. In writing  $A \hat{=} X$ , I mean only that  $A \subseteq X$ , leaving open the possibility that  $A = X$ . I do not use the symbol  $\subset$ . Proposition 0.1 (Exercise 1). The middle-thirds Cantor set  $C$  is totally disconnected and

### **Homework 1 Real Analysis - Michigan State University**

Math 405 Real Analysis I, Spring 2019 . Course Information. Schedule/HWs. Useful Links. Schedule (tentative) Week: Dates: Sections: Homework: Due date: 1: Jan 28 - Feb 1 : 1.1- The Logic of Quantifiers 1.2 - Infinite Sets 1.3 - Proofs: Homework 1 Solutions: Feb 8: 2: Feb 4-8 : 1.4 - The Rational Number System 1.5 - The Axiom of Choice 2.3 ...

### **Math 405 Real Analysis I**

View Notes - measure problems from MATH 153 at University of California, Berkeley. Real Analysis Homework: #1 Yingwei Wang Department of Mathematics, Purdue University, West Lafayette, IN,

### **measure problems - Real Analysis Homework#1 Yingwei Wang ...**

The goal of Real Analysis is to provide insights into logical foundations and inner workings of Calculus. We will spend a lot of time practicing understanding and writing precise mathematical arguments and proofs. The following topics will be covered: elementary limit processes, basic topology of real line, continuity,

### **Real Analysis 1 - Texas Christian University**

MATH 3150 · Real Analysis Instructor: Alex Suci: Course ... Homework assignments. Homework 1: due Monday, September 15. Solutions to Homework 1. Homework 2: ... Department of Mathematics Office: 435 Lake Hall Messages: (617) 373-2450 ...

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### **Alex Suci: Real Analysis - Northeastern University**

Real Analysis Readings and Homework . Homework is due in class on Friday. All readings are from Marsden and Hoffman. Be sure to read the proofs as well as the main text! Week Reading Homework 13: 29 Apr - 3 May Chapter 10.4-10.9 12: 22 Apr - 26 Apr Chapter 10.1-10.3 End of Chapter 10: 1, 2, 3(a), 4, 6, 8, 22, 30 ...

### **Real Analysis: Readings and Homework**

Math 4317 : Real Analysis I Mid-Term Exam 1 25 September 2012 Instructions: Answer all of the problems. Definitions (2 points each) 1.State the definition of a metric space.

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

Math 21-355 Real Analysis I, Fall 2011 Homework and Solutions. Assignment: Due Date: Solutions: Homework 1: September 7: Solutions: Homework 2: September 14

### **Homework - CMU**

An Introduction to Real Analysis John K. Hunter 1 Department of Mathematics, University of California at Davis 1The author was supported in part by the NSF. Thanks to Janko Gravner for a number of corrections and comments.

### **An Introduction to Real Analysis John K. Hunter**

Class meeting time: TR 11:00 AM - 12:15 PM, EMS E495: Text: Gerald B. Folland, Real Analysis (2nd Edition). Secondary text (optional): Richard F. Bass, Real Analysis (Version 2.1) From the linked page you can either download a free PDF version or purchase a soft cover version from Amazon.com (\$9.95).

### **Math 711 Real Analysis | Kevin McLeod 's Home Page**

Hand in Exercises 3 and 4 from the  $\sigma$ -Algebras class exercise handout; Folland, Section 1.2, Exercise 5. This assignment will be graded formatively. Due 09/17. 09/08: Read sections 1.1 (Introduction) and 1.2 ( $\sigma$ -algebras) of Folland for discussion on Thursday.

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### **Math 711 Homework | Kevin McLeod 's Home Page**

Math 8100 Homework Assignment 1 Due during lecture on Aug 27. Late homework will not be accepted Textbook: Real Analysis, 2nd edition, by Gerald B. Folland ... Mathematics Department The University of Georgia Math 8100 Homework Assignment 2 ... Real Analysis, 2nd edition, by Gerald B. Folland Readings from Chapter 5: emphasis on Sections 5.1, 5 ...

### **Mathematics Department The University of Georgia**

Real Analysis homework help; bring about the difficulties since it deals with a set of the real properties and numbers of the real functions. The concepts and notions are very unfamiliar to a large number of students and getting the actual need of help for the end task. We comprehend that coping with the real analysis assignments can consume ...

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### **Recitations | Real Analysis | Mathematics | MIT OpenCourseWare**

Introduction to Real Analysis Course Info. View syllabus. Office hours: PGH 604, Tu 10-11am, We 1:30-2:30pm. Week 1. The topology of  $\mathbb{R}^n$ . Cauchy sequences and completeness. Open and closed sets. Homework Set 1 , due August 29. Week 2. Properties of open and closed sets. Compact sets.

### **Bernhard G. Bodmann - Department of Mathematics ...**

Math 405: Introduction to Real Analysis Course Description. This is an introduction to real analysis. Topics covered in the course will include, The Logic of Mathematical Proofs, Construction and Topology of the Real Line, Continuous Functions, Differential Calculus, Integral Calculus, Sequences and Series of Functions.

### **Math 405: Introduction to Real Analysis**

Homework 3 Real Analysis Joshua Ruiter March 23, 2018

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Proposition 0.1 (Exercise 13a). Let  $A \subseteq \mathbb{R}^d$  be closed and  $B \subseteq \mathbb{R}^d$  be open. Then  $A \cup B$  is a  $G$  set and  $A \cap B$  is an  $F$  set. Proof. Let  $A = \bigcap_{n=1}^{\infty} C_n$  where each  $C_n$  is closed. We know that  $A \cap B$  is open because we can write it as a union of open balls,  $A \cap B = \bigcup_{n=1}^{\infty} (C_n \cap B)$ . We pause to justify this equality. If  $x \in A \cap B$ , then  $d(x, C_n) = 0$  for all  $n$ , so  $x \in C_n \cap B$  for all  $n$ . Conversely, if  $x \in \bigcup_{n=1}^{\infty} (C_n \cap B)$ , then  $x \in C_n$  for some  $n$  and  $x \in B$ . Since  $A = \bigcap_{n=1}^{\infty} C_n$ , we have  $x \in A$ . Thus  $A \cap B = \bigcup_{n=1}^{\infty} (C_n \cap B)$ .

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