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Part-2

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Chapter 1 Spring

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2011 1.1 Real

Analysis A1. (a)  $2^{-1}(\mathbb{Z})$   
is separable. A

countable set whose  
finite linear

combinations are

dense in  $\mathbb{R}$  is  $\sum_{n \in \mathbb{Z}} e_n x^n$ ,

where  $e_n$  has a 1 in

the  $n$ th position and is

0 everywhere else. If

$x \in 2^{-1}(\mathbb{Z})$ , then the

sums  $\sum_{k=-N}^N x^k e_k$

approximate  $x$

arbitrarily well in the

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norm as  $N!1$  since

Analysis Qualifying  
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Math

Qualifying Exam

Problems: Analysis

(Jan 10, 2015) 1. (10  
points) For each value  
of the real constant  $a$

$> 0$ , discuss the  
convergence of the  
series  $\sum_{n=1}^{\infty} \frac{a^n}{(n!)^2}$

1. Solution: By

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using the obvious inequality  $n! \geq nn$ , we get an  $(n!)^{1/n} \geq n$ . Thus if  $a \geq 1$ , then the series diverges. On the other hand, if  $0 < a < 1$ , then an  $(n!)^{1/n} \leq n$ .

~~Qualifying Exam~~  
~~Problems: Analysis~~  
Ph.D. QUALIFYING  
EXAM IN REAL  
ANALYSIS January

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10, 2008 Three hours

There are 11 questions. A passing paper consists of 6 questions done completely correctly, or 5 questions done correctly with substantial progress on 2 others. 1. Let  $\{x_n\}_{n=1}^{\infty}$  be a bounded sequence in  $\mathbb{R}$ . Assume that every convergent

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subsequence

converges to the  
same real number.

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Topology; The sample  
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exams. Naturally  
exams vary from year  
to year. Additional  
historic qualifying  
exams are available  
in the Mathematics  
Program Office. The  
exams are scheduled  
twice a year, in

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August/September  
and May.

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Graduate Center,  
CUNY~~

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that have contributed  
solutions: Adam Lott

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Winter 2019 – Algebra  
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that the Algebra  
exams for winter 2019  
say 2018 on them.

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that were  
administered

December 2018. Fall  
2018 – Algebra ...

Analysis • Fall 2017 –  
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Each part will contain

four questions, and

correct answers to

two of these four will

ensure a pass on that

part. To pass the

Analysis exam, you

must either pass Part

A and Part B, or Part

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A and Part C. The qualifying exams in Algebra and in Analysis are offered on different days, the same week. On the day of each exam, Part A is given in the morning, while parts B and C are given in the afternoon.

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## Mathematics

### Qualifying Exams.

Qualifying exams are administered twice a year (January and August). Students who intend to take a particular qualifying exam must sign-up for the exam by contacting the Graduate Program Assistant during the sign-up period. The

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schedule for the  
Qualifying Exams for  
January, 2021 is:

~~Past Qualifying  
Exams, Department  
of Mathematics,  
Texas A ...~~

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EXAM SOLUTION  
SET January 31,  
2009 A passing paper  
consists of 7

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problems solved completely, or 6 solved completely with substantial progress on 2 others.

1. Let  $(X;d)$  be a metric space. A set  $E \subseteq X$  is called discrete if there is  $\epsilon > 0$  such that, for all  $x$  and  $y$  in  $E$  with  $x \neq y$  we have  $d(x;y) > \epsilon$ . Show that a discrete set is necessarily closed.

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~~SET 1.  $\mu_6 = fg$~~

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Complex Analysis

(Math 630-631,

660-661) Note: This

exam now only tests

the material of Math

630 and Math 660,

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whereas it used to  
involve a choice of  
topics from Math  
630-631 and Math  
660-661. Aug 2011;  
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(.pdf) Older,  
miscellaneous  
Analysis exams .  
August 1995 MA  
Exam ...

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~~UMD~~ Analysis

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Analysis in TAMU.

For three exams Jan 2013, August 2012 and January 2012, I type all full solutions.

For previous exams before 2012, I type solutions of some selected problems.

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| Semantic Scholar  
The Ph.D. qualifying

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examination in  
Mathematics is a  
written examination in  
two parts. The  
purpose of the PHD  
qualifying examination  
is to demonstrate that  
the student has  
achieved a degree of  
mathematical depth  
and maturity in the  
core areas of real  
analysis and abstract  
linear algebra, has

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Additionally cultivated  
advanced problem  
solving skills in  
graduate level  
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analysis, covering  
measure theory,  
Banach and Hilbert spa  
ces, and Fourier transfo  
rms.

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Exam – January

20-22, 2015 \_\_\_\_\_

The Qualifying Exam

is in a three-day, non-proctored format.

Students will be able to access the exam at

9:00 am East Coast

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time on January 20, 2015. You will have 72 hours to submit your answer. The assignment box will remain open until 9:00 am

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and Analysis

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Real Analysis

Qualifying Exam –

May 14th 2016

Written by Prof. S.

Lee and Prof. B.

Shekhtman Solve 8

out of 12 problems.

(1) Prove the Banach

contraction principle:

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Let  $T$  be a mapping from a complete metric space  $X$  into itself such that  $d(Tx, Ty) \leq qd(x, y)$  for all  $x, y \in X$  and for some  $q < 1$ .

~~Real Analysis  
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May 14th 2016~~  
Topics include  
differentiation of  
functions in  $\mathbb{R}^n$ ,

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inverse and implicit function theorems, integration in  $\mathbb{R}^n$ , Fubini's theorem, change of variables, Stokes' theorem. Math 510 and Math 511 prepare graduate students for the Real Analysis Qualifying Exam.

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in such areas as real analysis, multivariable calculus, differential equations, metric spaces, complex analysis, algebra, and linear algebra.

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and quasi-stationary  
electromagnetic fields  
- Circuit analysis -  
Electromagnetic  
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particle-field  
interactions.

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powerful book that  
addresses a long-  
standing elephant in  
the mathematics

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room. Many people learning math ask "Why is math so hard for me while everyone else understands it?" and "Am I good enough to succeed in math?" In answering these questions the book shares personal stories from many now-accomplished mathematicians affirming that "You

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are not alone; math is hard for everyone" and "Yes; you are good enough." Along the way the book addresses other issues such as biases and prejudices that mathematicians encounter, and it provides inspiration and emotional support for mathematicians ranging from the

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experienced professor  
to the struggling  
mathematics student.

--Michael Dorff, MAA

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a remarkable

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reflections on what it

means to be, and to

become, a

mathematician. Each

story reveals a unique

and refreshing

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barriers erected by  
our cultural focus on  
"math is hard."

Indeed, mathematics  
is hard, and so are  
many other things--as  
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mathematicians at

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every career stage.

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President This book is  
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