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*Review (Stewart
Calculus 8th edition)*
Entrance Exam

**Reviewer | Common
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Chapter 1 Spring 2011

1.1 Real Analysis A1.

(a) $\mathbb{1}(\mathbb{Z})$ is separable. A
countable set whose finite
linear combinations are
dense in \mathbb{R}^n is $\mathbb{1}(\mathbb{Z})$,

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where e_n has a 1 in the n th position and is 0 everywhere else. If $x \in \ell^2(\mathbb{Z})$, then the sums $\sum_{k=-N}^N x_k e_k$ approximate x arbitrarily well in the norm as $N \rightarrow \infty$ since

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Problems: Analysis (Jan

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10, 2015) 1. (10 points)

For each value of the
real constant $a > 0$,

discuss the convergence
of the series $\sum_{n=1}^{\infty} \frac{a^n}{n!}$

($n!$) $n \geq 1$. Solution: By
using the obvious

inequality $n! \geq n^n$, we
get $\frac{a^n}{n!} \leq \frac{a^n}{n^n}$.

Thus if $a \geq 1$, then the
series diverges. On the
other hand, if $0 < a < 1$,
then $\frac{a^n}{n!} \leq \frac{a^n}{n}$

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Exams OSU Math Grad

Students July 31, 2014

To pass, it su ces to

solve four problems

correctly. You should

exercise good

judgement in deciding

what constitutes an

adequate solution. In

particular, you should

not try to solve a

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problem just by quoting a theorem that reduces what you are asked to prove to a triviality.

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Complex Analysis
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Part 1. 1. Let $\log z$ be the principal branch of the logarithm defined on $G = \{z \in \mathbb{C} : \operatorname{Im} z \in (-\pi, \pi)\}$. Show

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that if $t > 0$, then the equation $\log z = t z$ has exactly one root in G .

Solution. Let $z = re^{i\theta}$ where $r > 0$ and $-\pi < \theta < \pi$. Then $\log z = t z$ becomes $\log r + i\theta = t r \cos \theta + i t r \sin \theta$. Since $\theta \in (-\pi, \pi)$ and $t r > 0$,

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January 2004 1. (a)

Classify all entire functions $f : \mathbb{C} \rightarrow \mathbb{C}$ such that $\sup_{z \in \mathbb{C}} |f(z)| / (1 + |z|^4) < \infty$. The function $f(1/z)$ has an isolated singularity at 0. If this singularity is removable, then f is bounded and so constant by Liouville's theorem, which is one possibility. If

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~~January 2004 1. C~~

Spring 2012 Numerical

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Webb and Kyle R Ste en

July 5, 2016 1. Full rank

matrix: Given $A \in \mathbb{C}^{m \times n}$

with $m \geq n$, show that

AA^H is nonsingular if A has

full rank. Proof. First,

recall the definition of a

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nonsingular matrix: that is, a square, full-rank matrix. Next, recall:

$A \in \mathbb{R}^{n \times n}$ with $n \times n$ full-rank $\Rightarrow Ax = 0 \Rightarrow x = 0$. Proof of this statement:

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Real Analysis;
Topology; The sample
exams and syllabi listed

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On this website were given as actual 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 August/September and May.

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quite a while--at least
for real analysis
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is likely to prove very
useful to a lot of
people--students
preparing for these
exams as well as faculty
who have to make out

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sci.math.research, and
alt.math.undergrad.

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that the Algebra exams
for winter 2019 say
2018 on them. They are
the exams that were
administered December
2018. Fall 2018 –
Algebra • Fall 2018 ...
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~~of Mathematics~~
Analysis (Exam

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(Syllabus for 2019-2020)

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from a) advanced

calculus, b) Math 721,

and c) one of the two

courses: Math 722

(Complex Analysis) and

Math 725 (Real

Analysis). Choose one

at the time of exam

registration. The exam

usually consists of nine

questions and six are to

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be attempted.

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~~A Guide to Topics for
the Qualifying
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To pass the Analysis exam, you must either pass Part A and Part B, or Part A and Part C.

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On the day of each

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exam, Part A is given in the morning, while parts B and C are given in the afternoon.

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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

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Assistant during the sign-up period. The schedule for the Qualifying Exams for January, 2021 is:

~~Past Qualifying Exams,
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Mathematics, Texas A~~

...

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Solutions After years of
hosting prep courses for
the qualifying exams in

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complex analysis and topology/differential geometry, I've come up with solution sets for past qualifying exams. I'm often asked to share these by other graduate students studying for their upcoming qualifying exams, so I've decided to post them here.

Blake J. Boudreaux

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Qualifying Preliminary
Exams Solutions Guide
UC Davis Department
of Mathematics The
Galois Group First
Edition: Summer 2010
August 31, 2011 Project
Leader: Jeffrey
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David Renfrew Greg
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Mathew Stamps

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Math 510 and Math 511
prepare graduate
students for the Real
Analysis Qualifying
Exam. Textbooks: J.R.
Munkres, Analysis on
Manifolds, Westview
Press, 1997, ISBN-10:
0201315963.

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~~Math 511 – Introduction
to Analysis II~~

There are two types of qualifying exam: the Basic exam and the Area exams. The Basic exam is designed to be passed by well-trained students before they commence study at UCLA. It examines fundamental topics of the undergraduate

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exams are graduate level
exams. For each Area
exam there is a
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Syllabus

This book contains a
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material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good

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grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory

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texts, we mention

Differential and Integral
Calculus by R Courant,
Calculus by T Apostol,
Calculus by M Spivak,
and Pure Mathematics
by G Hardy. The reader
should also have some
experience with partial
derivatives. In overall
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