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Chapter 1 Spring 2011 1.1

Real Analysis A1. (a) '1(Z)

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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 $x \in \ell^1(\mathbb{Z})$, then the sums $\sum_{k=-N}^N x_k e_k$ approximate x

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arbitrarily well in the norm
as N^{-1} since

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Analysis (Jan 10, 2015) 1.

(10 points) For each value

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of the real constant $a > 0$, discuss the convergence of the series $\sum_{n=1}^{\infty} \frac{a^n}{(n!)^n}$. Solution: By using the obvious inequality $n! \leq n^n$, we get $\frac{a^n}{(n!)^n} \geq \frac{a^n}{n^n}$. Thus if $a \geq 1$, then the series diverges. On the

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other hand, if $0 < a < 1$,
then $a^n (n!)^{-1} \leq a^n$

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REAL ANALYSIS January 10,
2008 Three hours There are

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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} .

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Assume that every convergent subsequence converges to the same real number.

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QUALIFYING EXAM SOLUTION SET
January 31, 2009 A passing
paper consists of 7 problems
solved completely, or 6
solved completely with
substantial progress on 2
others. 1. Let $(X; d)$ be a
metric space. A set $E \subset X$ is

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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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~~1. $\mu \ll f \ll g$~~

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Math 660, whereas it used to
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from Math 630-631 and Math
660-661. Aug 2011; Jan
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problems. (1) Prove the Banach contraction principle: 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 $q < 1$.

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