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Chapter 3 Solutions

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Jonathan Conder 1.

Suppose $(E_n)_{n=1}^{\infty}$

is an increasing

sequence in M : For

each $n \in \mathbb{N}$ define F_n

$F_n := E_n - E_{n-1}$ (with $E_0 := 0$).

Clearly $(F_n)_{n=1}^{\infty}$

$(\sum_{n=1}^{\infty} E_n) = (\sum_{n=1}^{\infty} F_n)$

$= \sum_{n=1}^{\infty} (F_n) = \lim_{N \rightarrow \infty} \sum_{n=1}^N (F_n) =$

$\lim_{N \rightarrow \infty} \sum_{n=1}^N (E_n)$: If $(E_n)_{n=1}^{\infty}$

is a

decreasing

sequence in M and

sequence in M and

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$(\epsilon/2) < 1$; then $(\forall$
 $n \geq 1, \epsilon/n) = (\epsilon/2) (1/n)$
 $(\forall n \geq 1, \epsilon/n) = (\epsilon/2)$
 $(\forall n \geq 1, \epsilon/n) =$
 $(\epsilon/2) \lim_{n \rightarrow \infty} 1/n =$

$M \cap N \cap F := E -$

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Real Analysis

Chapter 1 Solutions

Jonathan Conder =

$(E) (E) + 2^{n-1} = 2^{n-1}$

for all $n \in \mathbb{N}$; and

hence $(\bigcap_{n \in \mathbb{N}} E) =$

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0:Moreover E Aand
 $A \in \mathcal{A}$;so by the
previous exercise
 E is σ -measurable. 20.
(a) If $(A_n)_{n \in \mathbb{N}}$ is a
sequence in \mathcal{M} such
that $E \cap A_n = \emptyset$; then
 $(E) \cap ([\bigcup_{n \in \mathbb{N}} A_n] \times \mathbb{R}) = \emptyset$
 $(A_n) = \bigcup_{n \in \mathbb{N}} (A_n)$:
Therefore $(E) \cap (E) = \emptyset$; by
definition. If there
exists $A \in \mathcal{M}$ such
that $E \cap A = \emptyset$ and $(A) =$
 (E) ; then

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3. (a) Let M be an infinite σ -algebra of subsets of some set

...

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Chapter 2 Solutions

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Suppose f is

measurable. Then $f^{-1}(B)$

$\in M$ and $f^{-1}(B) \in M$

because $f^{-1}(B)$ and $f^{-1}(B)$

are Borel

sets. If B is Borel

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then $f^{-1}(B) \in \mathcal{M}$; and
hence $f^{-1}(B) \in \mathcal{M}$
(since R is also
Borel). Thus f is
measurable on Y :

Conversely,
suppose that $f^{-1}(f^{-1}(g)) \in \mathcal{M}$; $f^{-1}(f^{-1}(g)) \in \mathcal{M}$ and
 f is measurable on
 Y : Let $B \in \mathcal{R}$ be Borel.
Then

$f^{-1}(a) \in \mathcal{Y}$ -

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Chapter 5 Solutions

Jonathan Conder 4.

Note that $\|kTx\|_T \leq \|k\|_T \|x\|_T$
 $\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$
 $\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$

$\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$
 $\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$
 $\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$

the limit as $n \rightarrow \infty$ of the
right hand side is

0; so $\lim_{n \rightarrow \infty} \|k\|_T = 0$

6. (a) Clearly $\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$

$\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$

$\|k\|_T = \sup_{\|x\|_T=1} \|kTx\|_T = \sup_{\|x\|_T=1} \|kTx\|_T$

zero then $\|k\|_T = 0$

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for some

$m_2 f_1, 2, \dots, n$: This

implies that $k \in P_n$

$k=1$ a $k \in k \setminus 1$ $j \in m_j > 0$

...

4. Note that $T_x \in T_k$

$k \in T_x \setminus k \in T_x \setminus x \in k \setminus k \in T_k \setminus k \in x$

$k \in T \setminus k \in x \setminus k$ and the ...

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Problem 2.3 If $\{f_n\}$ is
a sequence of
measurable
functions on X , then

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 $\{x : \lim_{n \rightarrow \infty} f_n(x) \text{ exists}\}$
is a measurable set.

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measure space

$(X; \mathcal{M}; \mu)$ and $E \in \mathcal{M}$, define $E(A) = \mu(A \cap E)$ for $A \in \mathcal{M}$. Then E is a measure. Proof.

First of all, $E(\emptyset) = (\emptyset \cap E) = \emptyset = 0$. Also, suppose $A_1, A_2, \dots \in \mathcal{M}$, $E(\bigcup_{i=1}^{\infty} A_i) = \mu(\bigcup_{i=1}^{\infty} A_i \cap E) = \mu(\bigcup_{i=1}^{\infty} (A_i \cap E)) = \sum_{i=1}^{\infty} \mu(A_i \cap E) = \sum_{i=1}^{\infty} E(A_i)$. Then E is a

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Borel then $f_1(B)$

$2M$; and hence $f_1(B)$

$\in \mathcal{Y}$ $2M$ (since R is

also Borel). Thus f_1 is

measurable on Y :

Conversely,

suppose that $f_1(f_1g)$

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2M; $f_1(f_1g)$ 2M and f
is measurable on

Y: Let $B \subset \mathbb{R}$ be Borel. f
a ; y -

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Guide to Page 11/22

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Page 24/36

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Problem 2.3 If $\{f_n\}$ is
a sequence of
measurable

functions on X , then
 $\{x : \lim f_n(x) \text{ exists}\}$
is a measurable set.

Solution: Define $h =$
 $\limsup f_n$, $g =$

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lim inf fn. By

Proposition 2.7, h, g
are measurable. Let
 $E_n = \{x \mid g(x) \leq h(x) + \frac{1}{n}\}$
 $E_\infty = \bigcap_{n=1}^{\infty} E_n$
 $E_n \subseteq E_{n+1}$
 $E_\infty = \{x \mid g(x) \leq h(x)\}$.

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Chapter 2 -

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Contents v 4.4

Sequences and

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Solutions Folland
Series of Functions

234 4.5 Power Series

257 Chapter 5 Real-
Valued Functions of
Several Variables

281 5.1 Structure of
 \mathbb{R}^n 281 5.2

Continuous Real-
Valued Function of n
Variables 302 5.3

Partial Derivatives
and the Differential
316

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Solutions Folland
Solution

INTRODUCTION TO
REAL ANALYSIS -

Trinity University	
2 The Real Numbers	
31 2.1 An Overview of the Real Numbers	
31 2.2 In?nite Decimals	34
2.3 Limits	37
2.4 Basic Properties of Limits	42
2.5 Upper and Lower Bounds	46
2.6 Subsequences	51
2.7 Cauchy	

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Real Ysis Exercise
Solutions Folland
Solution
Sequences 55 †2.8
Appendix:

Cardinality 60 3

Series 66 3.1

Convergent Series

66 3.2 Convergence

Tests for Series 70

†3.3 The Number e

77

Real Analysis with
Real Applications -
CARMA: A Priority

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Real Analysis -

Homework solutions

Chris Monico, May

2, 2013 1.1 (a) Rings

(resp. σ -rings) are

closed under finite

(resp. countable)

intersections.

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Problem 1.5 If M is the σ -algebra generated by E , then M is the union of the σ -algebras generated by F as F ranges over all countable subsets of E . (Hint: Show that the latter object is a σ -algebra.)

Solution: Let N denote the union of the σ -algebras

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generated by F as F
ranges over all
count- able subsets
of E . $N =$
 $\text{uniondisplay } F?E.$

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Chapter 8 Solutions

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$m(B_r(x))m(B_s(y)) \geq$

$B_s(0) \geq r(x) k? z f k$

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10/28

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Solutions Jonathan
Conder = $(\sum_{n \in \mathbb{N}} 2^{-n} a_n)$
 $\sum_{n \in \mathbb{N}} 2^{-n} a_n + \sum_{n \in \mathbb{N}} 2^{-n} a_n$
 $(\sum_{n \in \mathbb{N}} 2^{-n} a_n)$ is a
Page 34/36

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sequence in $f_0;2g \times$
 $n^{2N} (2^n - 1 + 3^n) a^n$
 $(a^n) n^{2N}$ is a
sequence in $f_0;2g$
Set $C_0 := [0;2]$; and
for

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cohort from the
HEalth, Risk factors,
exercise Training,
And Genetics
(HERITAGE) family

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Parra, 2006), which
is a large family
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involving 742
participants ...

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