

# ***Folland Real Analysis Solutions Chapter 6***

***Folland Chapter 3 Exercise  
1 Folland Chapter 4  
Exercise 13 Folland  
Chapter 7 Exercise 1  
Folland Chapter 5 Exercise  
1 Folland Chapter 4  
Exercise 1 Folland Chapter  
7 Exercise 2 Baby Rudin  
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Folland Chapter 3 Exercise  
12 Folland Chapter 5  
Exercise 20 ~~Folland  
Chapter 3 Exercise 5~~ Baby  
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**Folland Chapter 3 Exercise**

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**~~Folland Chapter 7 Exercise~~**  
**11**

**Baby Rudin Chapter 1**

**Exercise 5 Solution to Real**

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**Solutions Chapter**

**Real Analysis Chapter 3**

**Solutions Jonathan Conder**

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1. Suppose  $(E_n)_{n=1}^\infty$  is an increasing sequence in  $M$ : For each  $n \in \mathbb{N}$  define  $F_n := E_n \setminus E_{n-1}$  (with  $E_0 := \emptyset$ ). Clearly  $(\bigcup_{n=1}^\infty E_n) \setminus E_n = (\bigcup_{n=1}^\infty F_n) \setminus E_n = \bigcup_{n=1}^\infty (F_n \setminus E_n) = \bigcup_{n=1}^\infty (E_n \setminus E_n) = \emptyset$ . If  $(E_n)_{n=1}^\infty$  is a decreasing sequence in  $M$  and  $(E_1) \setminus E_n \in M$ ; then  $(\bigcap_{n=1}^\infty E_n) \setminus E_n = (\bigcap_{n=1}^\infty E_n) \setminus E_n = \bigcap_{n=1}^\infty (E_n \setminus E_n) = \bigcap_{n=1}^\infty \emptyset = \emptyset$ .

$M \setminus N \setminus F := E$

This following are partial solutions to exercises on Real Analysis, Folland, written concurrently as I

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Chapter 6

**took graduate real analysis at the University of California, Los Angeles. Last Updated: November 18, 2019 Contents**

- 1. Chapter 1-Measures 2**
- 2. Chapter 2-Integration 2**
- 3. Chapter 3-Signed Measures and Differentiation 11**
- 4. Chapter 4-Point Set Topology 23**
- 5.**

**PARTIAL SOLUTIONS TO REAL ANALYSIS, FOLLAND**

**Real Analysis Chapter 2 Solutions Jonathan Conder**

**1. Suppose  $f$  is measurable. Then  $f_1(f_1g)$   $2M$  and  $f_1(f_1g)$   $2M$ ; because  $f_1g$  and  $f_1g$  are Borel sets.**

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**If  $B$  is Borel then  $f_1(B)$**

**$\in \mathcal{M}$ ; and hence  $f_1(B) \in \mathcal{Y}$**

**(since  $R$  is also Borel).**

**Thus  $f_1$  is measurable on  $Y$ :**

**Conversely, suppose that**

**$f_1(f_1^{-1}(B)) \in \mathcal{M}$ ;  $f_1(f_1^{-1}(B)) \in \mathcal{M}$  and**

**$f_1$  is measurable on  $Y$ : Let  $B$**

**$R$  be Borel.**

**$f_1^{-1}(B) \in \mathcal{M}$ ;  $f_1^{-1}(B) \in \mathcal{M}$  - WordPress.com**

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**Analysis Solutions Solution**

**of Real Analysis – Folland**

**– Chapter 1 ... Real**

**Analysis Chapter 2**

**Solutions Jonathan Conder**

**$(X \times \mathbb{R}^2 \rightarrow \mathbb{R}^2)$   $(x, y) \mapsto (x^2 + y^2, x^2 - y^2)$**

**$(x, y) \mapsto (x^2 + y^2, x^2 - y^2)$  is a**

**sequence in  $f_0; 2g \times \mathbb{R}^2$  ( $2$**

**$n \geq 1$ )  $(x, y) \mapsto (x^2 + y^2, x^2 - y^2)$  is**

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*a sequence in  $f_0; 2g$  Set  $C$   
 $0 := [0; 2]$ ; and for each  $n \in \mathbb{N}$   
construct  $C_n$  from  $C_{n-1}$   
by removing an open  
interval of*

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– Folland – Chapter 1.  
Real Analysis – Folland –  
Chapter 1. Solution. This  
was edited by me. Some  
problems are solved by me  
and the others by my  
friends. Thus there might  
be so many mistakes. Good  
luck to your homeworks or  
exams ! <http://blog.naver>.*

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Let  $\mu : M \rightarrow [0;1]$  be another  
measure which extends  $\nu$ ; and  
let  $A \in M$ : Then  $\nu(A) = \int_A f d\nu$  for  
some  $f \in L^1(\mu)$  and  $N$  a subset of  
a measure zero set  $N \in M$ : It  
follows that  $\nu(E) = \int_E f d\nu$   $\nu(A)$   
 $\nu(E) + \nu(F) = \nu(E) + \nu(N) = \nu(E)$   
 $+ \nu(N) = \nu(E)$ :*

*3. (a) Let  $M$  be an in finite  
-algebra of subsets of  
some set ...  
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**14. Suppose for a contradiction that there exists  $C_2(\theta; 1)$  such that every measurable subset  $F \subseteq \mathbb{R}^n$  satisfies  $\int_F f(x) dx \leq C_2 \int_F 1 dx$  or  $\int_F f(x) dx \geq 1: \text{Set } M := \sup \{ \int_F f(x) dx : F \subseteq \mathbb{R}^n \text{ measurable and } \int_F 1 dx < 1 \}$ ; and note that  $0 < M < \infty$ : For each  $n \in \mathbb{N}$  there exists a measurable subset  $E_n$**

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 $= \left( \sum_{n \in \mathbb{N}} 2^{-n} a_n \right)^2 + \sum_{n \in \mathbb{N}} 2^{-n} a_n$   
 $3 \sum_{n \in \mathbb{N}} a_n$  is a**

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sequence in  $f_0; 2g \times n \in \mathbb{N}$  ( $2n - 1 + 3n$ )  $a_n (a_n) n \in \mathbb{N}$  is a sequence in  $f_0; 2g$ . Set  $C_0 := [0; 2]$ ; and for each  $n \in \mathbb{N}$  construct  $C_n$  from  $C_{n-1}$  by removing an open interval of length  $3^{-n}$  from the middle of

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**Folland: Real Analysis, Chapter 2 Sébastien**

**Picard 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  $h = \limsup f_n$ ,  $g = \liminf f_n$ . By

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**Proposition 2.7,  $h, g$  are measurable. Let  $E^\infty = \bigcap_{n=1}^\infty E_n$ .**

***Folland: Real Analysis, Chapter 2 - WordPress.com Real Analysis and Foundations (CRC Press, 1991). A summary of the relevant facts about sets and metric spaces is provided here in Chapter 0. The reader should begin this book by examining §0.1 and §0.5 to become familiar with my notation and terminology; the rest of Chapter 0 can then be referred to as needed.***

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Analysis Modern Techniques  
and Their ...**

**Real Analysis Chapter 5  
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**4. Note that  $kTx T nx nk$   
 $kTx Tx nk+ kTx n T nx nk$   
 $kTkkx x nk+ kT T nkkx$   
 $nk$ ; and the limit as  $n \rightarrow \infty$  of  
the right hand side is  
 $0$ ; so  $\lim_{n \rightarrow \infty} T nx = Tx$ : 6.**

**(a) Clearly  $kxk > 0$  for  
all  $x \in X$ : If  $P_n = \sum_{k=1}^n a_k e_k$   
 $\in X$  is non-zero then  $a_m \neq 0$   
for some**

**$m \in \mathbb{N}$ ;  $\dots$ ;  $n \geq m$ : This implies  
that  $k P_n = \sum_{k=1}^n a_k e_k k > 1$   
 $\sum_{j=m}^n |a_j| > 0 \dots$**

**4. Note that  $Tx = T k kTx$**

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*kTx T x k kTkx kT kx k  
and the ...*

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real analysis chapter 1 s  
ebastien picard problem 1  
5 if  $m$  is the algebra  
generated by  $e$  then  $m$  is  
the union of the algebras  
generated by  $f$  as  $f$  ranges  
over all countable subsets  
of  $e$  hint show that the  
latter object is a algebra  
solution let  $n$*

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legibly. Label the chapter  
+ section number as well  
as the problem number*

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(e.g., 1.1 #1.12).

**Homework that fails to meet the above requirements will be marked "Unacceptable" and returned unread. Homework Set 1 (due Wednesday, April 11) Solutions**

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1 MATH 6337 Real Analysis  
I - People Folland Chapter  
3 Exercise 1 Folland  
Chapter 5 Exercise 1 Math  
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Analysis, 2nd Edition,**

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**Chapter 2 Solutions**

**Jonathan Conder =  $(x_n)_{n \in \mathbb{N}}$**

**$a_n^2 + x_n^2 \leq n^2$   $(a_n)_{n \in \mathbb{N}}$**

**is a sequence in**

**$f_0; 2g) = (x_n)_{n \in \mathbb{N}}$   $(2n - 1 + 3$**

**$n)a_n (a_n)_{n \in \mathbb{N}}$  is a**

**sequence in  $f_0; 2g)$ : Set  $C$**

**$0 := [0; 2]$ ; and for each  $n \in \mathbb{N}$**

**construct  $C_n$  from  $C_{n-1}$**

**by removing an open**

**interval of length  $3/n$**

**from the middle of each**

**interval**



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***Applications by ...  
Analysis, Real and Complex  
Analysis, and Functional  
Analysis, whose widespread  
use is illustrated by the  
fact that they have been  
translated into a total of  
13 languages. He wrote the  
first of these while he  
was a C.L.E. Moore  
Instructor at M.I.T., just  
two years after receiving  
his Ph.D. at Duke  
University in 1949. Later***

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**14. Suppose for a contradiction that there exists  $C_2(\theta; 1)$  such that every measurable subset  $F$  satisfies  $\mu(F) \leq C$  or  $\mu(F) = 1$ : Set  $M := \sup\{\mu(F) \mid F \text{ is measurable and } \mu(F) < 1\}$ ; and note that  $0 < M < 1$ : For each  $n \in \mathbb{N}$  there exists a measurable subset  $E_n$**

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***1 Folland Chapter 4***

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**Exercise 1 Folland Chapter  
7 Exercise 2 Baby Rudin  
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Chapter 3 Exercise 5 Baby  
Rudin Chapter 3 Exercise 2**

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**Real Analysis Chapter 3**

**Solutions Jonathan Conder**

1. Suppose  $(E_n)_{n=1}^\infty$  is an increasing sequence in  $M$ : For each  $n \in \mathbb{N}$  define  $F_n := E_n \setminus E_{n-1}$  (with  $E_0 := \emptyset$ ). Clearly  $(\bigcup_{n=1}^\infty E_n) = (\bigcup_{n=1}^\infty F_n) = \bigcup_{n=1}^\infty (E_n \setminus E_{n-1}) = \lim_{N \rightarrow \infty} \bigcup_{n=1}^N (E_n \setminus E_{n-1}) = \lim_{N \rightarrow \infty} (E_N \setminus E_0) = \lim_{N \rightarrow \infty} (E_N) = E$ . If  $(E_n)_{n=1}^\infty$  is a decreasing sequence in  $M$  and  $(E_1) \neq \emptyset$ ; then  $(\bigcap_{n=1}^\infty E_n) = (E_1 \setminus \bigcup_{n=1}^\infty (E_1 \setminus E_n)) = (E_1) \setminus (\bigcup_{n=1}^\infty (E_1 \setminus E_n)) = (E_1) \setminus (E_1 \setminus (\bigcap_{n=1}^\infty E_n)) = (E_1) \cap (\bigcap_{n=1}^\infty E_n) = \bigcap_{n=1}^\infty E_n$ .

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$$\lim_{n \rightarrow \infty} \frac{1}{n!} = 0$$

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

*This following are partial solutions to exercises on Real Analysis, Folland, written concurrently as I took graduate real analysis at the University of California, Los Angeles. Last Updated: November 18, 2019*

**Contents**

1. Chapter 1-Measures 2
2. Chapter 2-Integration 2
3. Chapter 3-Signed Measures and Differentiation 11
4. Chapter 4-Point Set Topology 23
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1. Suppose  $f$  is measurable. Then  $f^{-1}(A) \in \mathcal{M}$  and  $f^{-1}(A) \in \mathcal{M}$ ; because  $f^{-1}(A)$  and  $f^{-1}(A^c)$  are Borel sets. If  $B \in \mathcal{R}$  is Borel then  $f^{-1}(B) \in \mathcal{M}$ ; and hence  $f^{-1}(B) \in \mathcal{Y} \in \mathcal{M}$  (since  $\mathcal{R}$  is also Borel). Thus  $f$  is measurable on  $Y$ : Conversely, suppose that  $f^{-1}(A) \in \mathcal{M}$ ;  $f^{-1}(A) \in \mathcal{M}$  and  $f$  is measurable on  $Y$ : Let  $B \in \mathcal{R}$  be Borel.

**$f$  a ;  $y$  - WordPress.com  
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Chapter 6

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– Chapter 1 ... Real**

**Analysis Chapter 2**

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**$= (X_{n \in \mathbb{N}} 2^{-n} a_n)^2 + X_{n \in \mathbb{N}} 2^{-3n} a_n$**

**$(a_n)_{n \in \mathbb{N}}$  is a**

**sequence in  $f_0; 2g$   $X_{n \in \mathbb{N}} (2^{-n-1} + 3^{-n}) a_n$**

**$(a_n)_{n \in \mathbb{N}}$  is**

**a sequence in  $f_0; 2g$  Set  $C$**

**$\emptyset := [0; 2]$ ; and for each  $n \in \mathbb{N}$**

**construct  $C_n$  from  $C_{n-1}$**

**by removing an open**

**interval of**

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**Chapter 1. Solution. This was edited by me. Some problems are solved by me and the others by my friends. Thus there might be so many mistakes. Good luck to your homeworks or exams ! <http://blog.naver.com/sohot0108/110066187622>**

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Let  $\mu$  be another measure which extends  $\nu$ ; and  
let  $A \in \mathcal{M}$ : Then  $\mu(A) = \int_A f d\nu$  for  
some  $f \in L^1(\nu)$  and  $N$  a subset of  
a measure zero set  $N \in \mathcal{M}$ : It**

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follows that  $(E) = (E) (A)$   
 $(E) + (F) (E) + (N) = (E)$   
 $+ (N) = (E):$

3. (a) Let  $M$  be an in nite  
-algebra of subsets of  
some set ...

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Analysis Chapter 1  
Solutions Jonathan Conder

14. Suppose for a  
contradiction that there  
exists  $C_2(0;1)$  such that  
every measurable subset  $F$   
Esatis es  $(F) C$  or  $(F) =$   
 $1: \text{Set } M := \sup_f (F) jF \text{ Eis}$   
measurable and  $(F) < 1g; \text{ and}$   
note that  $0 M C: \text{ For each}$   
 $n \in \mathbb{N}$  there exists a

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**measurable subset  $E_n$**

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**$= (X_n)_{n \in \mathbb{N}}$  is a**

**sequence in  $f_0; 2g$**

**$(2n + 3n)a_n (a_n)_{n \in \mathbb{N}}$  is**

**a sequence in  $f_0; 2g$**

**Set  $C$**

**$0 := [0; 2]$ ; and for each  $n \in \mathbb{N}$**

**construct  $C_n$  from  $C_{n-1}$**

**by removing an open**

**interval of length  $3^{-n}$**

**from the middle of**

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**Folland: RealAnalysis,**

**Chapter 2 Sébastien**

**Picard 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  $h = \limsup f_n$ ,  $g = \liminf f_n$ . By Proposition 2.7,  $h, g$  are measurable. Let  $E_\infty = \bigcap_{n=1}^{\infty} \{x : f_n(x) \geq h(x) \text{ and } f_n(x) \leq g(x)\}$ .

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Real Analysis and Foundations (CRC Press, 1991). A summary of the relevant facts about sets and metric spaces is provided here in Chapter

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*Real Analysis Chapter 5 Solutions Jonathan Conder*

*4. Note that  $kT_x T n_x nk$   
 $kT_x T_x nk+ kT_x n T n_x nk$   
 $kT_kkx x nk+ kT T nkkx$   
 $nk$ ; and the limit as  $n \rightarrow \infty$  of the right hand side is 0; so  $\lim_{n \rightarrow \infty} T n_x n = T_x$ : 6.  
(a) Clearly  $kxk \rightarrow 0$  for*

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*all  $x \in X$ : If  $\sum_{k=1}^n a_k e_k(x)$  is non-zero then  $a_m \neq 0$  for some*

*$m \in \{1, 2, \dots, n\}$ : This implies that  $\sum_{k=1}^n a_k e_k(x) > 0$  ...*

*4. Note that  $\langle T x, T x \rangle = \langle T x, T x \rangle$  and the ...*

*Real Analysis: Modern Techniques and Their Applications Gerald B. Folland An in-depth look at real analysis and its applications-now expanded and revised. This new edition of the widely used analysis book continues to cover real analysis in*

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*rare books from uncommonly good booksellers, folland real analysis chapter 1 sebastien picard problem 15 if  $m$  is the algebra generated by  $e$  then  $m$  is the union of the algebras generated by  $f$  as  $f$  ranges over all countable subsets of  $e$  hint show that the latter object is a algebra solution let  $n$*



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before submitting. Write  
legibly. Label the chapter  
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**Homework that fails to  
meet the above  
requirements will be  
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**Jonathan Conder =  $(X \ n2N \ 2$   
 $n \ a \ n \ 2 + X \ n2N \ 3 \ na \ n \ (a$   
 $n) \ n2N$  is a sequence in  
 $f0;2g) = (X \ n2N \ (2 \ n \ 1 + 3$   
 $n) \ a \ n \ (a \ n) \ n2N$  is a**

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*sequence in  $f(0;2g)$ : Set  $C_0 := [0;2]$ ; and for each  $n \geq 1$  construct  $C_n$  from  $C_{n-1}$  by removing an open interval of length  $3^{-n}$  from the middle of each interval*

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**Revised material on the  $n$ -dimensional Lebesgue integral.**

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**Analysis, Real and Complex Analysis, and Functional Analysis, whose widespread use is illustrated by the fact that they have been translated into a total of 13 languages. He wrote the first of these while he was a C.L.E. Moore Instructor at M.I.T., just two years after receiving**

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**his Ph.D. at Duke  
University in 1949. Later**

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**14. Suppose for a**

**contradiction that there**

**exists  $C_2(0;1)$  such that**

**every measurable subset  $F$**

**satisfies  $\mu(F) \leq C$  or  $\mu(F) =$**

**$1$ : Set  $M := \sup\{\mu(F) : F \in \mathcal{E}\}$**

**measurable and  $\mu(F) < 1$ ; and**

**note that  $0 < M < 1$ : For each**

**$n \in \mathbb{N}$  there exists a**

**measurable subset  $E_n$**