

Folland Solutions Chapter 1

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Folland: RealAnalysis, Chapter 1 5'ebastien Picard Problem1.5 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 generated by F as F ranges over all count- able subsets of E. N = [

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Real Analysis Chapter 1 Solutions Jonathan Conder 14. Suppose for a contradiction that there exists $C \subset (0,1)$ such that every measurable subset F Esatis es (F) C or (F) = 1:Set M := supf (F) |F Eis measurable and (F) <1g;and note that 0 M C:For each $n \in \mathbb{N}$ there exists a measurable subset E n Esuch that $M \cap (E_n) < 1/n$:Set $F_n := \bigcap_{i=1}^n E_i$ for each $n \in \mathbb{N}$

3. (a) Let M be an in nite -algebra of subsets of some set ...
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Solution to exercise 1 from chapter 5 from Gerald Folland's textbook, "Real Analysis: Modern Techniques and Their Applications."

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Folland Chapter 3 Exercise 1
Real Analysis Chapter 8 Solutions Jonathan Conder 1 m(B r(x))m(B s(y)) Z Bs(0) Z r(x) k' zfk 1dydz+ 2 <": Therefore (A 1=nf)1n =1 is uniformly Cauchy, so it converges uniformly to a function gwhich is uniformly continuous (by a standard argument). Theorem 3.18 implies that f= galmost everywhere.

P 2 1 P) is some polynomial of degree 2(k 1) By
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We show that $\int_0^1 f_n \, d\mu \rightarrow 0$ a.e. by contradiction. If $\int_0^1 f_n \, d\mu \rightarrow 0$ a.e., then $(f_n \cdot f_n) \rightarrow 0$ a.e.Since $\int_0^1 f_n \, d\mu \leq 1$ is dominated by an integrable function on $[0,1]$, by the Dominated Convergence Theorem we have $\lim \int_0^1 (\cos 2n\pi x)^2 dx = \int_0^1 \lim(\cos 2n\pi x)^2 dx = 0$. This is clearly nonsense since $\int_0^1 0 \cos(2\pi n x) = 1/2$. Finally, we show $\int_0^1 f_n \, d\mu$ in measure. We explicitly calculate the measure of the set of all

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Folland: RealAnalysis, Chapter 2 5'ebastien Picard Problem2.3 If $\{f_n\}$ is a sequence of measurable functions on X, then $\{x : \liminf f_n(x) \text{ exists}\}$ is a measurable set. Solution: Define $h = \limsup f_n$, $g = \liminf f_n$.By Proposition 2.7, h, g are measurable. Let $E = \{x : h(x) = g(x)\}$. Then $E = \bigcap_{n=1}^{\infty} \bigcup_{k=1}^{\infty} \{x : h(x) - g(x) < 1/n\}$

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Section 1 2 October 2018 A Solution to Exercise 3(a) from Folland Chapter 1 For any σ -algebra \mathcal{M} and $D \in \mathcal{M}$, de ne $M = \mathcal{M} \cap D$: Lemma. For any $A, D \in \mathcal{M}$, we have $M \cap D = \mathcal{M} \cap D$: B Dg: Consequently, if both M A and M D are nite, then M A[D is nite Proof. If $B = \bigcup_{i=1}^{\infty} B_i$ with $B_i \in \mathcal{M}$ and $B_i \cap D = \mathcal{M} \cap D$, then since M is closed under union and ...

2 October 2018 - University of California, Los Angeles
I don't mean failing to recall $2+2 = 4$ or anything like that. I'm doing a commutative algebra independent study right now and there are so many theorems relating the different objects at play in complicated ways that when trying to prove a certain extension inclusion property I was so busy theorem chasing that I forgot to simply check if an object being in set A implies it's also in set ...

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