

Math 605 Hw 3 Solutions Folland Real Analysis Chapter 2

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MATH 605, HW 3 SOLUTIONS Folland's Real Analysis; Chapter 2: 2.) $f, g: X \rightarrow \bar{\mathbb{R}}$ are measurable. (a) Show that fg is measurable: Since $\{x \mid fg(x) > a\} = \cup_{b \in \mathbb{Q}} \{x \mid f(x) > b\} \cap \{x \mid bg(x) > a\}$, we can write $(fg)^{-1}((a, \infty])$ as a countable union of measurable sets.

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Math 115 HW #3 Solutions From §12.2 20. Determine whether the geometric series $\sum_{n=1}^{\infty} e^{3n-1}$ is convergent or divergent. If it is convergent, find its sum. Answer: I can re-write the terms as $e^{3n-1} = e \cdot e^{3n-2} = e \cdot e^{3(n-1)}$. Therefore, the series $\sum_{n=1}^{\infty} e^{3n-1} = e \sum_{n=1}^{\infty} e^{3(n-1)} = e \sum_{n=0}^{\infty} e^{3n}$,

Math 115 HW #3 Solutions

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MATH 605, HW 8 SOLUTIONS Folland's Real Analysis; Chapter 3: 22.) Suppose $f \in L^1(\mathbb{R}^n)$ and $\|f\|_{L^1} = 0$. Show there exist $C, R > 0$ so (the maximal function) $Hf(x) \geq C|x|^{-n}$ for $|x| > R$:

Since $\|f\|_{L^1} = 0$, we can choose $R > 0$ so $\int_{B_R/2}(0) |f| > \alpha > 0$ for some α . For $|x| > R$, we get

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Hf (x) = sup r > 0 A r | f | (x) ≥ A 2 | x | | f | (x) ≥ B R (0) | f | C 1 (2 | x |) n > α 2 - n | x | - n / C 1 . 23.)

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MATH 605, HW 1 SOLUTIONS Folland's Real Analysis; Chapter 1: 4.) This follows since any countable union can be written as an increasing countable union: $u \in \bigcup_{j=1}^{\infty} E_j = u \in \bigcup_{j=1}^{\infty} \bigcup_{k=1}^j E_k = \bigcup_{k=1}^{\infty} \bigcup_{j=k}^{\infty} E_k$; note that $\bigcup_{j=k}^{\infty} E_k$ is a finite union of sets in the algebra and is hence in the algebra. 5.)

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View Notes - 605_4 from MATH 605 at University of California, Los Angeles. MATH 605, HW 4 SOLUTIONS Follands Real Analysis; Chapter 2: 19.) Suppose f_n L^1 (Ω) and $f_n \rightarrow f$ uniformly.

605_4 - MATH 605 HW 4 SOLUTIONS Follands Real Analysis ...

Math 55 Homework 3 Solutions September 18, 2019 2.1: 2, 12, 18, 20, 40, 44 2. (a) $\{x \in \mathbb{Z} \mid Sx = 3k \text{ for some } k \in \{0;1;2;3;4\}\}$ (b) $\{x \in \mathbb{Z} \mid -3 \leq x \leq 3\}$

Math 55 Homework 3 Solutions

Keshav Srinivasan Spruck Math 605 Homework 5 1. Since f is measurable, $\int_E f$ exists. Since all the E_k are disjoint, by theorem 5.24 we have $\int \sum_k f \chi_{E_k} = \sum_k \int f \chi_{E_k}$. 2. If $f_k = \chi_{[k, \infty)}$, then all the f_k are measurable, bounded below by $\varphi: \mathbb{R} \rightarrow \mathbb{R}$ defined by

Math 605 Homework 5 - Mathematics

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Homework 2 Solutions Igor Yanovsky (Math 151A TA) Problem 1: Show that the iteration equation for the Secant method can be written in the following form: $p_n = f(p_{n-1})p_{n-2} - f(p_{n-2})p_{n-1} / (f(p_{n-1}) - f(p_{n-2}))$. Solution: The Secant iteration is defined as

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MATH 411 HOMEWORK 3 SOLUTIONS ADAM LEVINE 2.17.6. Let A , B , and A denote subsets of a space X . (a) Show that if $A \supset B$, then $A \cap B = B$. By definition, A is the intersection of all closed sets containing A . Since B is a closed set that contains B and hence A , it must therefore contain A . (b) Show that $A \cap B = A \cap B$.

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