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### Math 605 Hw 3 Solutions

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

### 605\_3 - MATH 605 HW 3 SOLUTIONS Follands Real Analysis ...

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### Download online MATH 605, HW 3 SOLUTIONS Folland's Real ...

Keshav Srinivasan Spruck Math 605 Homework 4 1. A. Suppose that  $f$  is measurable. Then  $f \circ k$  is measurable for each  $k$ , so  $k \circ f \circ k$  is measurable. By theorem 4.1,  $f \circ k$  is measurable for each  $k$ , so  $k \circ f \circ k$  is measurable. Since  $f, f \circ k$ , and  $E$  are measurable, so are  $E \circ f \circ k$  and  $E \circ f$ .

### Math 605 Homework 4 - Mathematics

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

### Math 605 Homework 5 - Mathematics

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  $B_{R/2}(0) \cap \{f\} > \alpha > 0$  for some  $\alpha$ . For  $|x| > R$ , we get  $Hf(x) = \sup_{r>0} \int_{B_r(x)} f \geq \int_{B_{R/2}(x)} f \geq B_{R/2}(x) \cap \{f\} \geq C|x|^{-n} > \alpha$ .

### 605\_8 - MATH 605 HW 8 SOLUTIONS Follands Real Analysis ...

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Math 118C Homework 3 Solutions Charles Martin April 21, 2009 9.19 Show that the system of equations  $3x+y-z+u^2=0$   $x-y+2z+u=0$   $2x+2y-3z+2u=0$  can be solved in terms of  $x$ , in terms of  $y$ , in terms of  $z$ , but not in terms of  $u$ . For  $k=1,2,3$  define  $f_k: \mathbb{R}^4 \rightarrow \mathbb{R}$  by  $f_k$

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