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

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1. Suppose (E n)1 n=1 is an increasing sequence in M:For each n2N de ne F n:= E nnE n 1 (with E 0:= ?). Clearly ([1 n=1E n) = ([1 n=1F n) = X1 n=1 (F n) = lim N!1 XN n=1 (F n) = lim N!1 (E N): If (E n)1 n=1 is a decreasing sequence in M and (E 1) <1;then (\1 n=1E n) = (E 1 n(E 1 n\ 1 n=1E n)) = (E 1) ([1 n=1(E 1 nE n)) = (E 1) lim n!1 (E

M N F := E

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If B Ris Borel then f1(B) 2M;and hence f1(B) \Y 2M (since R is also Borel). Thus fis measurable on Y: Conversely, suppose that f1(f1g) 2M;f1(f1g) 2M and f is measurable on Y:Let B R be Borel.

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3. (a) Let M be an in nite -algebra of subsets of some set ...
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4. Note that Tx T k kTx

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