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It is clear that $k \cdot$ is a norm (this follows directly from the fact that $k \cdot_p$ and $k \cdot_r$ are norms). Let $\{f_n\}_{n=1}^\infty$ be a Cauchy sequence in $L_p(L_r)$: Since $\|f_n - f_m\|_p \rightarrow 0$ as $n, m \rightarrow \infty$. Folland: Real Analysis Chapter 4 Solutions Jonathan Conder $X = A = \text{acc}(A)$: It follows that $B = 2n(x)$ contains some point $a \in A$; in which case $x \in B = 2n(a) \cup B$: By the triangle inequality $B = 2n(a) \cup B = 2n(x) \cup U$: This shows that U is the union of a (possibly empty) subcollection of B : Therefore B is a base for the topology on X ; so this topology is second countable. $\mathbb{N} \mathbb{N} k=1 \in \mathbb{N}$ Section 2.5 #46 Let μ , Lebesgue measure, and counting measure. If μ , then μ and ν are all unequal. Proof: First observe since μ is nonzero only when i.e. on the set which has Lebesgue measure zero. 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