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### Real Analysis Exercise Solutions Folland Solution

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

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We define  $\lambda(E) := \int_E f d\mu$  to be a signed measure on  $(X, \mathcal{N})$ . The fact that  $\lambda$  is a signed measure is explained in the first paragraph on page 86, and follows from the fact that at least one of  $f_+ d\mu$  and  $f_- d\mu$  are finite (indeed, both are finite since  $f \in L^1(\mu)$ ). Let  $A \in \mathcal{N}$ .

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### Integration of nonnegative funtion, Folland Real Analysis

Folland: Real Analysis, Chapter 7 S'ebastien Picard Problem 7.2 Let  $\mu$  be a Radon measure on  $X$ . a. Let  $N$  be the union of all open  $U \subset X$  such that  $\mu(U) = 0$ . Then  $N$  is open and  $\mu(N) = 0$ . The complement of  $N$  is called the support of  $\mu$ . b.  $x \in \text{supp}(\mu)$  iff  $\int f d\mu > 0$  for every  $f \in C_c(X, [0,1])$  such that  $f(x) > 0$ .

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Read Free Folland Analysis Solutions A Guide to Real Analysis Chapter 6 Solutions Jonathan Conder 3. Since  $L_p$  and  $L_r$  are subspaces of  $CX$ ; their intersection is a vector space. It is clear that  $\| \cdot \|_k$  is a norm (this follows directly from the fact that  $\| \cdot \|_p$  and  $\| \cdot \|_r$  are norms). Let  $\{f_n\}_{n=1}^{\infty}$  be a Cauchy sequence in  $L_p \setminus L_r$ : Since  $\|f_n - f_m\|_k \rightarrow 0$

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