

# Real Analysis Problems Solutions

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## Real Analysis Problems Solutions

Real Analysis Problems Cristian E. Guti errez September 14, 2009 1. 1 CONTINUITY 1 Continuity Problem 1.1 Let  $r_n$  be the sequence of rational numbers and  $f(x) = \sum_{n: r_n < x} \frac{1}{2^n}$ : Prove that 1.  $f$  is continuous on the irrationals. 2.  $f$  is discontinuous on the rationals. 3. Calculate  $\int_0^1 f(x) dx$ :

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Solution. • (a) We write the series as  $f(x) = \sum_{n=2}^{\infty} a_n x^n$  where  $a_n = (1 \text{ if } n \text{ is prime, } 0 \text{ if } n \text{ isn't prime.}$  • Then  $|a_n x^n| \leq |x|^n$  for every  $n = 2, 3, 4, \dots$ . Therefore, if  $|x| < 1$  the series converges by comparison with the convergent geometric series  $\sum |x|^n$ . Furthermore, if  $|x| > 1$ , the terms in the series do not approach 0.

## **RealAnalysis Math 125A, Fall 2012 Sample Final Questions**

Selected Problems in Real Analysis (with solutions) Dr Nikolai Chernov Contents 1 Lebesgue measure 1 2 Measurable functions 4 3 Lebesgue integral: definition via simple functions 5 4 Lebesgue integral: general 7 5 Lebesgue integral: "equipartitions" 17 6 Limits of integrals of specific functions 20 7 Series of non-negative functions 31

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