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sequence of rational numbers and $f(x) =$

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$f: \mathbb{R} \rightarrow \mathbb{R}$: 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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The Completeness Axiom (7)

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CONTINUITY 1 Continuity Problem 1.1

Let r_n be the sequence of rational numbers and $f(x) = \sum_{n=1}^{\infty} \chi_{(r_n, r_n + \frac{1}{2^n})}$:

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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Real Analysis by D. A. Sprecher. A list of analysis texts is provided at the end of the book. Although A Problem Book in Real Analysis is intended mainly for undergraduate mathematics students, it can also be used by teachers to enhance their lectures or as an aid in preparing exams.

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