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$U ( P, f, \beta 1) = M \mid L ( P, f, \beta 1) = m \mid$  in  
the interval  $[ 0, x \mid ]$  of  $P$ . Because  $f$  is  
right-continuous at 0, both  $M \mid$  and  $m \mid$   
converge to  $f ( 0)$  as  $x \mid \rightarrow 0$ , so  $\int f d \beta 1$

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$= f(0)$ . (b) The statement is:  $f \in R(\beta, 2)$  if and only if  $f(0^-) = f(0)$  and then  $\int f dx = f(0)\beta + \frac{1}{2}\beta^2 = f(0)$ . The proof is similar to part (a).

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not hold for  $\mathbb{Q}$ . Chapter 2, taken with its exercises, gives a very complete account of the topological properties of  $\mathbb{R}$  as a metric space.

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Each  $(x, y) \neq (0, 0)$  has a neighborhood small enough so that at most three of the terms in the sum are nonzero. Since these terms are continuous,  $f$  is continuous away from the origin. Let  $M_i$  be the maximum value of  $\phi_i$ , attained at  $x_i \in (2 - i, 2 - i + 1)$ . Since  $1 = \int \phi_i < M_i \cdot 2 - i$ , we have  $M_i > 2 - i$ .

## **Solution to Principles of Mathematical Analysis Chapter 10**

Rudin wrote Principles of Mathematical Analysis only two years after obtaining his Ph.D. from Duke University while he was a C. L. E. Moore Instructor at MIT. Principles, acclaimed for its elegance and clarity, has since become a standard textbook for introductory real analysis courses in the United States.

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The answer is, in general, "No." Rudin shows how the material of lower division calculus can be developed, essentially from scratch, in a rigorous fashion. Hence to call on material you have seen developed in the loose fashion of your earlier courses would defeat the purpose.

## Supplements to the Exercises in Chapters ... - UCB Mathematics

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On page 19 of Rudin's Principles of Mathematical Analysis, the author constructs real numbers using Dedekind cuts. The proof that the sum of a real number  $x$  and its ...

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