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Let  $x$  be a real number. If  $0 < x < e$  is true for all real numbers  $e > 0$ , then  $x = 0$ . This statement is the general idea of what we do in analysis. If we wish to show that  $x = 0$ , we show that  $0 < x < e$  for all positive  $e$ . The term real analysis is a little bit of a misnomer. I prefer to use simply analysis. The other

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In analysis, we usually prove inequalities, and we prove those inequalities by estimating. To illustrate the point, consider the following statement. Let  $x$  be a real number. If  $x < e$  is true for all real numbers  $e > 0$ , then  $x = 0$ . This statement is the general idea of what we do in analysis. Suppose next we really wish to prove the equality  $x = 0$ .

Basic Analysis I

Introduction. 1 Real Numbers. 2 Sequences and Series. 3 Continuous Functions. 4 The Derivative. 5 The Riemann Integral. 6 Sequences of Functions. 7 Metric Spaces.

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There are seven chapters in Basic Analysis I: (1) Real Numbers, (2) Sequences and Series, (3) Continuous Functions, (4) The Derivative, (5) The Riemann Integral, (6) Sequences of Functions, (7) Metric Spaces.

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By Jiri Lebl. Paperback. USD 15.18. Add to Cart. Usually printed in 3 - 5 business days. (Coil bound) A first course in mathematical analysis. Covers the real number system, sequences and series, continuous functions, the derivative, the Riemann integral, sequences of functions, and metric spaces. Originally developed to teach Math 444 at University of Illinois at Urbana-Champaign and later enhanced for Math 521 at University of Wisconsin-Madison.

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It can be used anywhere from a semester early introduction to analysis for undergraduates (especially chapters 1-5) to a year-long course for advanced undergraduates and masters-level students. See <http://www.jirka.org/ra/> Table of Contents (of this volume I): Introduction 1. Real Numbers 2. Sequences and Series 3. Continuous Functions 4. The Derivative 5.

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Exercise 3.4.14 Introduction to Real Analysis by Jiri Lebl. Bookmark this question. Show activity on this post. Suppose for  $f: [0, 1] \rightarrow \mathbb{R}$ , we have  $|f(x) - f(y)| \leq K|x - y|$ , and  $f(0) = f(1) = 0$ . Prove that  $|f(x)| \leq K/2$ . Further show by example that  $K/2$  is the best possible, that is, there exists such a continuous function for which  $|f(x)| = K/2$  for some  $x \in [0, 1]$ .

Exercise 3.4.14 Introduction to Real Analysis by Jiri Lebl

Introduction About this book This second volume of "Basic Analysis" is meant to be a seamless continuation. The chapters are numbered to start where the first volume left off. The book started with my notes for a second-semester undergraduate analysis at University of Wisconsin-Madison in 2012, where I used my notes together with Rudin ...

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