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not carry out the development of the real number system from these basic properties, it is useful to state them as a starting point for the study of real analysis and also to focus on one property, completeness, that is probably new to you. Field Properties The real number system (which we will often call simply the reals) is first of all a set

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for many systems, of which the collection of real numbers is only one. For example, all the axioms stated so far hold for the system consisting of all complex numbers. Also, there are many systems, each consisting of a finite number of elements (finite fields), that satisfy all the axioms we have stated until now.

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KEY CONCEPTS: Introduction to Real Analysis Samvel Atayan and Brent Hickman Summer 2008 1 Sets and Functions ... Definition 1 A set is a collection of elements. \in If an element x is in a set A then we denote $x \in A$, if x is not in A , ... \notin A sequence of real numbers is a function $f : \mathbb{N} \rightarrow \mathbb{R}$. Therefore,

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Elements of Real Analysis, 1987, 343 pages, David A

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About This Document I often teach the MATH 501-502: Introduction to Real Analysis course at the University of Louisville. The course is intended for a mix of mostly

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The main changes to the first edition of Basic Real Analysis are as follows: A careful treatment of arc length, line integrals, and Green's Theorem for the plane has been added at the end of Chapter III. These aspects of Stokes's Theorem can be handled by the same kinds of techniques of real analysis as in the first edition.

Basic Real Analysis - Stony Brook University

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