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mathematical analysis as a unified and systematic whole was put together in the works of i newton g leibniz l euler j l lagrange and other scholars in the 17th century and 18th century and its foundations the theory of limits was laid by a l cauchy at the beginning of the 19th century

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our goal with this textbook is to provide students with a strong foundation in mathematical analysis such a foundation is crucial for future study of deeper topics of analysis students should be familiar with most of the concepts presented here after completing the calculus sequence

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mathematics deals with ideas not pencil marks or chalk marks not physical triangles or physical sets but ideas which may be represented or suggested by physical objects what are the main properties of mathematical activity or mathematical knowledge as known to all of us from daily experience 1 mathematical

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the concept of a limit of a sequence is defined as is the concept of divergence of a sequence to 1 we discuss bounded sequences and monotonic sequences the limit inferior and limit superior of a sequence are defined we prove the cauchy convergence criterion for sequences of real numbers

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this chapter discusses various mathematical concepts and constructions which are central to the study of the many fundamental results in analysis generalities are kept to a minimum in order to move quickly to the heart of analysis the structure of the real number system and the notion of limit

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