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rapid review of this theory. For more details see, e.g. [Hal]. We then discuss the real numbers from both the axiomatic and constructive point of view. Finally we discuss open sets and Borel sets. In some sense, real analysis is a pearl formed around the grain of sand provided by paradoxical sets. Real Analysis - people.math.harvard.edu This course covers the fundamentals of mathematical

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Mathematicians seek out patterns and formulate new conjectures which resolve the truth or falsity of conjectures by mathematical proofs.

M.Sc. (Mathematics), Master of Science in Mathematics
...Mathematical proof 1.1

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There are many useful ways to present mathematics; sometimes a picture or a

physical analogy produces more understanding than a complicated equation.

However, the language of mathematical logic has a unique advantage: it gives a standard form for presenting mathematical truth. If there is doubt about

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