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Appendix C Cantor's Proof of the Existence of Transcendental Numbers -- Appendix D Trigonometric Numbers -- Answers and Suggestions to Selected Problems -- Index.

Sommario/riassunto

A superb development that starts with the natural numbers and carries the reader through the rationals and their decimal representations to algebraic numbers and then to the real numbers. Along the way, you will see characterizations of the rationals and of certain special (Liouville) transcendental numbers. This material is basic to all of algebra and analysis. Professor Niven's book may be read with profit by interested high school students as well as by college students and others who want to know more about the basic aspects of pure mathematics.
