Introduction To Functional Equations: Theory And Problem-solving Strategies For Mathematical Competi

This book covers topics in the theory and practice of functional equations. Special emphasis is given to methods for solving functional equations that appear in mathematics contests, such as the Putnam competition and the International Mathematical Olympiad. This book will be of particular interest to university students studying for the Putnam competition, and to high school students working to improve their skills on mathematics competitions at the national and international Reveal. Mathematics educators who train students for these competitions will find a wealth of material for training on functional equations problems.

The book also provides a number of brief biographical sketches of some of the mathematicians who pioneered the theory of functional equations. The work of Oresme, Cauchy, Babbage, and others, is explained within the context of the mathematical problems of interest at the time.

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Functional Equations and How to Solve Them fills a need and is a valuable contribution to the literature of problem solving. —Henry Ricardo, MAA Reviews

The main purpose and merits of the book...are the many solved, unsolved, partially solved problems and hints about several particular functional equations. —Janos Aczel, Zentralblatt



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