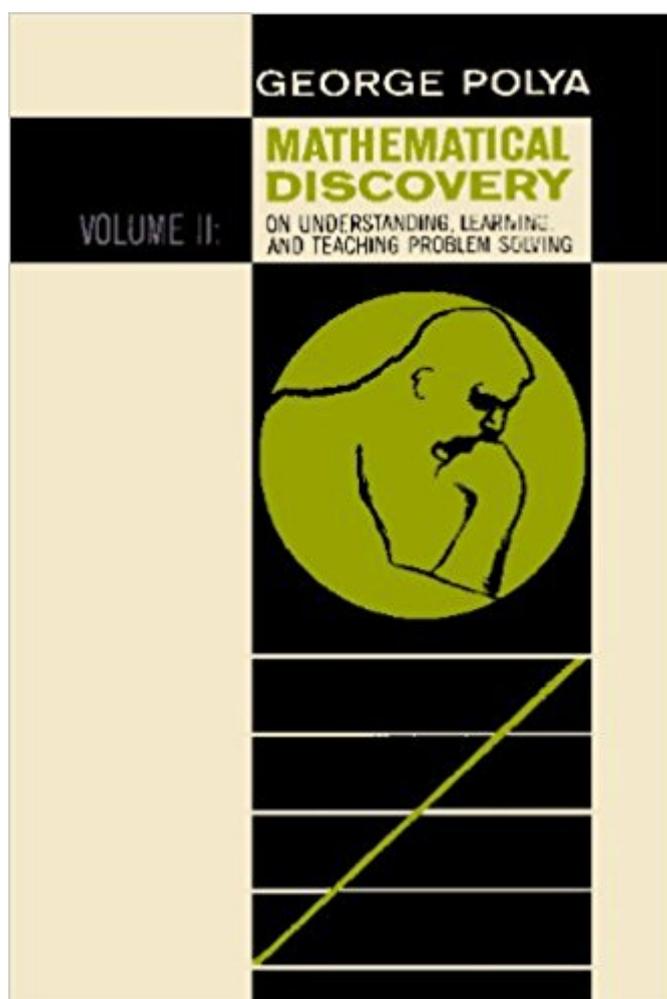


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# Mathematical Discovery On Understanding, Learning, And Teaching Problem Solving, Volume II



## Synopsis

“Solving problems”, writes Polya, “is a practical art, like swimming, or skiing, or playing the piano: You can learn it only by imitation and practice. This book cannot offer you a magic key that opens all the doors and solves all the problems, but it offers you good examples for imitation and many opportunities for practice: If you wish to learn swimming you have to go into the water and if you wish to become a problem solver you have to solve problems.” In enough cases to allay ... discouragement over not immediately discovering a solution, Professor Polya masterfully leads the reader down several unproductive paths. At the end of each chapter he provides examples for the reader to solve. By means of these carefully selected and arranged problems, many of them directly related to others that precede, and guided by just the right suggestions at just the proper time, the reader’s own ability is developed and extended. Solutions to the examples and, in many cases, outlines of procedures for discovering solutions, are given at the back of the book. With striking promise for effectiveness, the entire book as a unit is one great experience in learning processes for problem solving through participation. The author has captured with great success the implication of his basic premise stated in the preface ... • The Mathematics Teacher 218 pages.

## Book Information

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## Customer Reviews

Now the first part was mostly about list of heuristics. I know that G. Polya realised that it is not just enough to know heuristics to become a good problem solver. You need something else. It doesn't appear that he made a lot of progress on that but he has done a great job of putting it down in paper

as to what he thinks about the psychology of problem solving. I highly recommend this book to kids preparing for the International Math Olympiad and other tough Math contests. Please also look at Mathematical Problem Solving by Alan Schoenfeld which is probably a good continuation of the work that has been presented in this book and is much more useful than this book.

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