



## The Art of Problem Solving, Vol. 2: And Beyond

By Richard Rusczyk, Sandor Lehoczky



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The Art of Problem Solving, Volume 2, is the classic problem solving textbook used by many successful high school math teams and enrichment programs and have been an important building block for students who, like the authors, performed well enough on the American Mathematics Contest series to qualify for the Math Olympiad Summer Program which trains students for the United States International Math Olympiad team. Volume 2 is appropriate for students who have mastered the problem solving fundamentals presented in Volume 1 and are ready for a greater challenge. Although the Art of Problem Solving is widely used by students preparing for mathematics competitions, the book is not just a collection of tricks. The emphasis on learning and understanding methods rather than memorizing formulas enables students to solve large classes of problems beyond those presented in the book. Speaking of problems, the Art of Problem Solving, Volume 2, contains over 500 examples and exercises culled from such contests as the Mandelbrot Competition, the AMC tests, and ARML. Full solutions (not just answers!) are available for all the problems in the solution manual. (Please note: The new 7th edition features a different look from previous editions, but has the same content.)

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#### Review

Your book meets a great need for students getting into serious math competitions. It's readable, understandable, and comprehensive - a nice bridge into the AIME and the Olympiads. The kids and I love the books. --Joe Holbrook, Academy for the Advancement of Math/Science/Technology

Every school should have this in their math library. --Paul Zeitz, past coach of the U.S. Int'l Mathematics Olympiad team

. . . the Art of Problem Solving books are AMAZING! I don't know how you managed to get so much material into them. . . --Neal Wu, 2005 MATHCOUNTS National Champion

Every school should have this in their math library. --Paul Zeitz, past coach of the U.S. Int'l Mathematics Olympiad team

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#### About the Author

Sandor Lehoczky participated in the Math Olympiad Summer Program in 1989, and in 1990 earned the sole perfect AIME score and led the national first place team on the AHSME (now AMC 12). Richard Rusczyk is the founder of the Art of Problem Solving website. He was a national MATHCOUNTS participant in 1985, a three-time participant in the Math Olympiad Summer Program, a perfect AIME scorer in 1989, and a USA Mathematical Olympiad winner. He is author or co-author of 6 Art of Problem Solving textbooks. Lehoczky and Rusczyk were co-founders of the Mandelbrot Competition and are board members of the Art of Problem Solving Foundation.

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