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Mathematics problem-solving challenges for secondary school students and beyond.

Problem Solving in Mathematics and Beyond 4. Hackensack, NJ: World Scientific (ISBN 978-981-4730-03-7/pbk; 978-981-4730-05-1/ebook). xiv, 181 p. (2016).

Publisher's description: This book is a rare resource consisting of problems and solutions similar to those seen in mathematics contests from around the world. It is an excellent training resource for high school students who plan to participate in mathematics contests, and a wonderful collection of problems that can be used by teachers who wish to offer their advanced students some challenging nontraditional problems to work on to build their problem solving skills. It is also an excellent source of problems for the mathematical hobbyist who enjoys solving problems on various levels. Problems are organized by topic and level of difficulty and are cross-referenced by type, making finding many problems of a similar genre easy. An appendix with the mathematical formulas needed to solve the problems has been included for the reader's convenience. We expect that this book will expand the mathematical knowledge and help sharpen the skills of students in high schools, universities and beyond.

Classification: U40

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