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Olympiad. 103 Trigonometry Problems by Titu Andreescu and Zuming Feng. Problem Solving Getting Started. the Art of Problem Solving Volume 1 by Sandor Lehoczky and Richard Rusczyk is recommended for avid math students in grades 7-9.

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Problem solving and proofs at the Olympiad level are an entirely different skill from the AMC and AIME competitions. There are a number of books both classical and modern the cover non-routine problem solving at the Olympiad level. The classical resources on problem solving are mostly by the famous mathematician George Polya.

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Fortunately there is a vast collection of free resources on the internet: over 25 thousand past problems from maths competitions are available at the extensive Art of Problem Solving site, and if you explore, you will find discussions of solutions. Don't look up the solutions too quickly (be prepared to spend many hours thinking about each problem).

Art of Problem Solving: Counting with Combinations Part 3

Art of Problem Solving's Richard Rusczyk tackles some tough counting problems involving combinations and discovers a combinatorial identity.

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Art and Craft of Problem Solving by Paul Zeitz, introduction to math olympiads in general. An olympiad combinatorics book, by Pranav A. Sriram. The individual chapters are located in posts #1, #11, #49.

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An olympiad level study of combinatorics involves a deep

understanding of intermediate combinatorics along with knowledge of the following topics.

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