



Challenges in Geometry: for Mathematical Olympians Past and Present

By Christopher J. Bradley

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The International Mathematical Olympiad (IMO) is the World Championship Competition for High School students, and is held annually in a different country. More than eighty countries are involved.

Containing numerous exercises, illustrations, hints and solutions, presented in a lucid and thought-provoking style, this text provides a wide range of skills required in competitions such as the Mathematical Olympiad.

More than fifty problems in Euclidean geometry involving integers and rational numbers are presented. Early chapters cover elementary problems while later sections break new ground in certain areas and area greater challenge for the more adventurous reader. The text is ideal for Mathematical Olympiad training and also serves as a supplementary text for student in pure mathematics, particularly number theory and geometry.

Dr. Christopher Bradley was formerly a Fellow and Tutor in Mathematics at Jesus College, Oxford, Deputy Leader of the British Mathematical Olympiad Team and for several years Secretary of the British Mathematical Olympiad Committee.

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Review

"Christopher Bradley's fascinating book, *Challenges in Geometry: for Mathematical Olympians Past and Present*, would make a wonderful addition to the personal library of coaches of mathematical competitions, as well as anyone who has an interest in the intersection of geometry and number theory...*Challenges in Geometry* offers a great treasure of interesting problems, potential avenues of exploration and research for students, and new insights into rational geometry." --The Mathematical Association of America

"Most books are written with the intent that they can be read in a linear order. Bradley seems to have written this book with a different intent--it can be played with in any order...The book is a smorgasboard, with full chapters on integer-sided triangles, circles or spheres that touch, rational points on curves, and areal coordinates."--*CHOICE*

About the Author

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