



Mathematical Olympiad Challenges

By Titu Andreescu, Razvan Gelca

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Mathematical Olympiad Challenges By Titu Andreescu, Razvan Gelca

Hundreds of beautiful, challenging, and instructive problems from algebra, geometry, trigonometry, combinatorics, and number theory

Historical insights and asides are presented to stimulate further inquiry

Emphasis is on creative solutions to open-ended problems

Many examples, problems and solutions, with a user-friendly and accessible style

Enhanced motivation

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Mathematical Olympiad Challenges By Titu Andreescu, Razvan Gelca Bibliography

- Sales Rank: #674685 in Books
- Brand: Birkhauser
- Published on: 2008-12-09
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .69" w x 6.10" l, .96 pounds
- Binding: Paperback
- 283 pages

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Editorial Review

Review

From the reviews:

"The authors are experienced problem solvers and coaches of mathematics teams. This expertise shows through and the result is a volume that would be a welcome addition to any mathematician's bookshelf." **MAA Online**

"This [book] is...much more than just another collection of interesting, challenging problems, but is instead organized specifically for learning. The book expertly weaves together related problems, so that insights gradually become techniques, tricks slowly become methods, and methods eventually evolve into mastery.... The book is aimed at motivated high school and beginning college students and instructors. It can be used as a text for advanced problem-solving courses, for self-study, or as a resource for teachers and students training for mathematical competitions, and for teacher professional development, seminars, and workshops.

I strongly recommend this book for anyone interested in creative problem-solving in mathematics.... It has already taken up a prized position in my personal library, and is bound to provide me with many hours of intellectual pleasure." **The Mathematical Gazette**

"The Olympiad book is easier to describe since the format of the Olympiad competition and the books it has spawned will be well known to most Gazette readers. ... The authors have organised the material to reduce the pain ... and to make the material a genuine learning experience for Olympian hopefuls and their teachers. ... a valuable addition to the problem literature, and their organisational features are generally helpful rather than merely attempts to look different." (John Baylis, *The Mathematical Gazette*, July, 2004)

From the Back Cover

This significantly revised and expanded second edition of *Mathematical Olympiad Challenges* is a rich collection of problems put together by two experienced and well-known professors and coaches of the U.S. International Mathematical Olympiad Team. Hundreds of beautiful, challenging, and instructive problems from algebra, geometry, trigonometry, combinatorics, and number theory from numerous mathematical competitions and journals have been selected and updated. The problems are clustered by topic into self-contained sections with solutions provided separately. Historical insights and asides are presented to stimulate further inquiry. The emphasis throughout is on creative solutions to open-ended problems.

New to the second edition:

- * Completely rewritten discussions precede each of the 30 units, adopting a more user-friendly style with more accessible and inviting examples

- * Many new or expanded examples, problems, and solutions

* Additional references and reader suggestions have been incorporated

Featuring enhanced motivation for advanced high school and beginning college students, as well as instructors and Olympiad coaches, this text can be used for creative problem-solving courses, professional teacher development seminars and workshops, self-study, or as a training resource for mathematical competitions.

This [book] is...much more than just another collection of interesting, challenging problems, but is instead organized specifically for learning. The book expertly weaves together related problems, so that insights gradually become techniques, tricks slowly become methods, and methods eventually evolve into mastery.... The book is aimed at motivated high school and beginning college students and instructors...I strongly recommend this book for anyone interested in creative problem-solving in mathematics.... It has already taken up a prized position in my personal library, and is bound to provide me with many hours of intellectual pleasure.

?The Mathematical Gazette (Review of the First Edition)

Users Review

From reader reviews:

Jacob Lehr:

The event that you get from Mathematical Olympiad Challenges is a more deep you excavating the information that hide inside the words the more you get enthusiastic about reading it. It doesn't mean that this book is hard to be aware of but Mathematical Olympiad Challenges giving you buzz feeling of reading. The writer conveys their point in specific way that can be understood through anyone who read it because the author of this reserve is well-known enough. This kind of book also makes your current vocabulary increase well. Making it easy to understand then can go together with you, both in printed or e-book style are available. We highly recommend you for having this Mathematical Olympiad Challenges instantly.

Roy Stoudt:

The book Mathematical Olympiad Challenges has a lot info on it. So when you check out this book you can get a lot of gain. The book was written by the very famous author. Mcdougal makes some research previous to write this book. This specific book very easy to read you can obtain the point easily after looking over this book.

Cesar Ford:

Your reading 6th sense will not betray you actually, why because this Mathematical Olympiad Challenges book written by well-known writer whose to say well how to make book that can be understand by anyone

who also read the book. Written within good manner for you, dripping every ideas and composing skill only for eliminate your hunger then you still skepticism Mathematical Olympiad Challenges as good book not simply by the cover but also with the content. This is one publication that can break don't judge book by its deal with, so do you still needing an additional sixth sense to pick that!? Oh come on your studying sixth sense already told you so why you have to listening to yet another sixth sense.

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