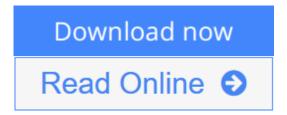


# **Mathematical Olympiad Challenges**

By Titu Andreescu, Razvan Gelca



## 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 motivatio

References



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## Mathematical Olympiad Challenges By Titu Andreescu, Razvan Gelca Bibliography

• Sales Rank: #674685 in Books

• Brand: Birkhauser

Published on: 2008-12-09Original 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 signficantly 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.

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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:

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### **Roy Stoudt:**

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#### **Cesar Ford:**

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