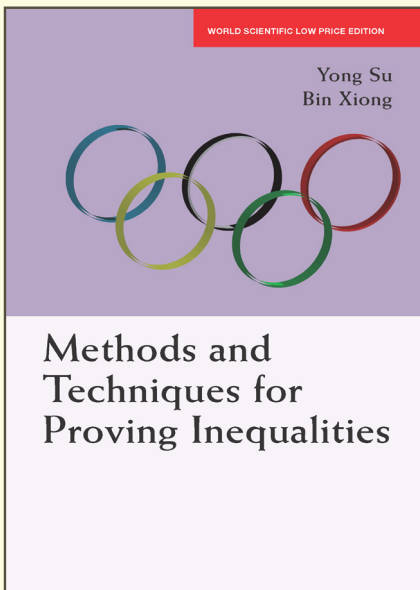


# Methods and Techniques for Proving Inequalities In Mathematical Olympiad and Competitions



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## ABOUT THE BOOK

In China, lots of excellent maths students take an active interest in various maths contests and the best six senior high school students will be selected to form the IMO National Team to compete in the International Mathematical Olympiad. In the past ten years China's IMO Team has achieved outstanding results — they won the first place almost every year.

The authors are coaches of China's IMO National Team, whose students have won many gold medals many times in IMO.

This book is part of the Mathematical Olympiad Series which discusses several aspects related to maths contests, such as algebra, number theory, combinatorics, graph theory and geometry. The book explains many basic techniques for proving inequalities such as direct comparison, method of magnifying and reducing, substitution method, construction method, and so on.

## READERSHIP

Senior high school students engaged in math contests, math teachers, undergraduates of math major and math enthusiasts.

## CONTENTS

- Basic Techniques for Proving Inequalities
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- Substitution Method
- Proof by Contradiction
- Construction Method
- Local Inequality

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