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**Mathematical
Olympiad
Problems
And
Solutions**

*This book is a
continuation of
Mathematical
Olympiads*

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1999-2000:
Problems And
Solutions

*From
Around the
World,
published by
the
Mathematical
Association of
America. It
contains
solutions to
the problems*

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*from 27
national and
regional
contests
featured in the
earlier book,
together with
selected
problems
(without
solutions) from
national and
regional*

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contests given during 2001. In many cases multiple solutions are provided in order to encourage students to compare different problem-solving strategies. The

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Problems And
Solutions

*editors have
tried to
present a wide
variety of
problems,
especially from
those countries
that have often
done well at
the IMO. The
problems
themselves
should provide*

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*much enjoyment
for all those
fascinated by
solving
challenging
mathematics
questions.*

*The series is
edited by the
head coaches of
China's IMO
National Team.*

Each volume,

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Solutions

*catering to
different
grades, is
contributed by
the senior
coaches of the
IMO National
Team. The
Chinese edition
has won the
award of Top 50
Most*

Influential

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Educational
Problems And
Solutions
Brands in
China. The

*series is
created in line
with the
mathematics
cognition and
intellectual
development
levels of the
students in the
corresponding*

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*grades. All hot
mathematics
topics of the
competition are
included in the
volumes and are
organized into
chapters where
concepts and
methods are
gradually
introduced to
equip the*

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Problems And
Solutions

*students with
necessary
knowledge until
they can
finally reach
the competition
level. In each
chapter, well-
designed
problems
including those
collected from
real*

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competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems.

Detailed solutions are provided

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*selectively. As
a feature of
the series, we
also include
some solutions
generously
offered by the
members of
Chinese
national team
and national
training team.
Over 300*

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*challenging
problems in
algebra,
arithmetic,
elementary
number theory
and
trigonometry,
selected from
Mathematical
Olympiads held
at Moscow
University.*

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*Only high
school math
needed.*

*Includes
complete
solutions.*

*Features 27
black-and-white
illustrations.*

1962 edition.

*This is great
collection of
algebra*

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solutions from
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Olympiads and
competitions
around the
world.*

*The Contest
Problem Book IX
High School 2
Problems And
Solutions In
Mathematical*

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School 3)
Secondary 3

Algebra

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Solutions from
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Mathematics,
Volume 12:
Mathematical**

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Problems and
Puzzles: From
the Polish
Mathematical
Olympiads
contains sample
problems from
various fields
of mathematics,
including
arithmetic,
algebra,
geometry, and

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trigonometry.

The contest for
secondary
school pupils
known as the
Mathematical
Olympiad has
been held in
Poland every
year since
1949/50. This
book is
composed of two

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main parts.

Part I

considers the
problems and
solutions about
integers,
polynomials,
algebraic
fractions and
irrational
experience.

Part II focuses
on the problems

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Problems And
Solutions
of geometry and
trigonometric
transformation,
along with
their
solutions. The
provided
solutions aim
to extend the
student's
knowledge of
mathematics and
train them in

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mathematical
thinking. This
book will prove
useful to
secondary
school
mathematics
teachers and
students.
This book
provides the
mathematical
tools and

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problem-solving
experience
needed to

successfully
compete in high-
level problem
solving
competitions.
Each section
presents
important
background
information and

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then provides a variety of worked examples and exercises to help bridge the gap between what the reader may already know and what is required for high-level competitions.

Answers or

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sketches of the solutions are given for all exercises.

The
Mathematical
Olympiad books,
covering the
USA
Mathematical
Olympiad (USAMO)
and the
International

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Olympiad
Mathematical
Problems And
Solutions
Olympiad (IMO),
have been
published
annually by the
MAA American
Mathematics
Competitions
since 1976.
This is the
sixth volume in
that series
published by

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the MAA in its
Problem Book
series. The IMO
is the work
mathematics
championship
for high school
students. It
takes place
annually in a
different
country each
year. The aims

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of the IMO are
(1) to
discover,
encourage and
challenge
mathematically
gifted young
people in all
countries; (2)
to foster
friendships
between
mathematicians

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around the world; (3) to create an opportunity for the exchange of information on school syllabi and practice throughout the world. The USAMO and the Team Selection Test (TST) are

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the last two stages of the selection process for the United states of America IMO team. The preceding examinations are the AMC 10 or AMC12 and the American Invitational

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Examination
Solutions
(AIME).

Participation
in the AIME,
USAMO, and the
TST is by
invitation
only, based on
performance in
the preceding
exams of the
sequence.

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Olympiad

Through the AMC

contests and

the IMO, young

gifted

mathematicians

are identified

and recognized

while they are

still in

secondary

school.

Participation

in the

in the

in the

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competitions provides them with the chance to measure themselves against other exceptional students from all over the world. This work was prepared by Zuming Feng,

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Melanie
Matchett Wood,
the Leader and
Deputy Leader
of the 2004 USA
IMO team, and
by Cecil
Rousseau, the
chair of the
USAMO
Committee. In
addition to
presenting

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their own
carefully
written
solutions to
the problems,
Zuming and
Melanie provide
remarkable
solutions
developed by
the examination
committees,
contestants,

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and experts,
during or after
the contests.

They also
provide a
detailed report
of the 2000
2004 USAMO/IMO
results and a
comprehensive
guide to other
material that
emphasize

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advances problem
m-solving. This
collection of
excellent
problems and
beautiful
solutions is a
valuable
companion for
students who
wish to develop
their interest
in mathematics

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outside the
school
curriculum and
to deepen their
knowledge of
mathematics.

The
International
Mathematical
Olympiad (IMO)
is a
competition for
high school

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students. China has taken part in IMO twenty times since 1985 and has won the top ranking for countries thirteen times, with a multitude of golds for individual

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students. The 6
students China
sent every year
were selected
from 20 to 30
students among
approximately
130 students
who take part
in the China
Mathematical
Competition
during the

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winter months.
This volume
comprises a
collection of
original
problems with
solutions that
China used to
train their
Olympiad team
in the years
from 2003 to
2006.

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The IMO
Problems And
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Mathematical
Olympiads
1999-2000
Inequalities
American
Mathematics
Competitions
(AMC 12)
2001-2007
Contests

There are many

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countries
around the
world that hold
Mathematics
Competitions.
The
Competitions
are extremely
interesting since
many professors
try to create
new interesting

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problems. If you want to take part in these competitions, you have to solve many problems. That means you must master your problem-solving skills. Selected Problems from

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Around the World Vol 1 is a problem-solution book. This book has only two chapters. The first chapter of this book is a collection of problems. We select many good problems

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from different sources. Most of them used to appear in Mathematics Competitions. In this part, we want the readers try their best to solve the problems. Remember that

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only a few people can solve all problems in this book. So, do not be upset if you cannot solve some problems. Even we cannot solve problems, we still gain some techniques in

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solving
problems. The
readers should
keep in mind
that the only
way in learning
Mathematics is
to do
Mathematics.
The second
chapter of this
book was

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written about the solution to each problem that listed in the first chapter. We try to solve the problems step by step. We believe that the solutions will help the readers to understand

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well. Reading through this part, we hope the readers will learn many problem-solving strategies. Let this book be your close friend when you learn about Mathematics.

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We hope the readers have a great journey in reading this book. Gavin Wichler

A collection of problems put together by coaches of the U.S.

International

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Mathematical
Olympiad Team.
This is a book on
Olympiad
Mathematics
with detailed
and elegant
solution of each
problem. This
book will be
helpful for all
the students

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preparing for
RMO, INMO,
IMO, ISI and
other National &
International
Mathematics
competitions. Th
e beauty of this
book is it
contains
"Original
Problems"

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framed by
authors Daniel
Sitaru(Editor-In-
Chief of
Romanian
Mathematical
Magazine) &
Rajeev Rastogi
(Senior Maths
Faculty for IIT-
JEE and
Olympiad in

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Kota, Rajasthan)
Problems And
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Contained here
are solutions to
challenging
problems from
algebra,
geometry,
combinatorics
and number
theory featured
in the earlier
book, together

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with selected questions (without solutions) from national and regional Olympiads given during the year 2000. Intended for the serious student/problem solver, these

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books can help to improve performance in the Mathematical Olympiad competition. However, for those not entering the competition, there is much to

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challenge any mathematician, even those with advanced degrees.

Different nations have different mathematical cultures, so you will find that some of the questions are

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extremely difficult and some rather easy. There are a wide variety of problems especially from those countries that have often done well in the IMO. Anyone interested in

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mathematical
problem solving
will encounter
some beautiful
mathematics in
the pages of this
book. If you are
up to a real
challenge, take
some of these
problems on!

103

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Trigonometry
Problems And
Solutions
From the
Training of the
USA IMO Team
Mathematical
Olympiad in
China
(2009-2010)
Problem-Solving
Strategies
Math Storm

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This book is intended for the Mathematical Olympiad students who wish to prepare for the study of inequalities, a topic now of frequent use at various levels of

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mathematical competitions. In this volume we present both classic inequalities and the more useful inequalities for confronting and solving optimization problems. An important part of this book deals with

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*geometric
inequalities and
this fact makes a*

*big difference with
respect to most of
the books that deal
with this topic in
the mathematical
olympiad. The book
has been organized
in four chapters
which have each of
them a different*

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character. Chapter 1 is dedicated to present basic inequalities. Most of them are numerical inequalities generally lacking any geometric meaning. However, where it is possible to provide a geometric

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interpretation, we include it as we go along. We emphasize the importance of some of these inequalities, such as the inequality between the arithmetic mean and the geometric mean, the Cauchy-Schwarz inequality,

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the rearrangement inequality, the Jensen inequality, the Muirhead theorem, among others. For all these, besides giving the proof, we present several examples that show how to use them in mathematical olympiad problems.

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*We also emphasize
how the
substitution
strategy is used to
deduce several
inequalities.*

*This book contains
Functions and
Polynomials
problems and
solutions from all
Mathematical
Olympiads and*

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*competitions
around the world.
The International
Mathematical
Olympiad (IMO) is
a competition for
high school
students. China has
taken part in the
IMO 21 times since
1985 and has won
the top ranking for
countries 14 times,*

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*with a multitude of
gold medals for individual
students. The six
students China has
sent every year
were selected from
20 to 30 students
among
approximately 130
students who took
part in the annual
China*

Mathematical
Page 69/164

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Competition during
the winter months.

*This volume of
comprises a
collection of
original problems
with solutions that
China used to train
their Olympiad
team in the years
from 2009 to 2010.*

*Mathematical
Olympiad problems*

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*with solutions for
the years*

*2002-2008 appear
in an earlier
volume,*

*Mathematical
Olympiad in China.*

*Problems and
Solutions in
Mathematical
Olympiad High
School 1*

Euclidean

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*** Problem-solving tactics and practical test-taking techniques provide in-depth enrichment and**

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to
trigonometric
functions,
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and functional
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**and their
applications in
the Euclidean**

**plane and
solid geometry**

*** A cogent pro
blem-solving
resource for
advanced high
school
students, unde
rgraduates,**

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and
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mathematics
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teachers
engaged in
competition
training
"The IMO
Compendium"
is the ultimate
collection of
challenging hi
gh-school-level

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**mathematics
problems and
is an**

**invaluable
resource not
only for high-
school
students
preparing for
mathematics
competitions,
but for anyone**

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**who loves and
appreciates
mathematics.**

**The
International
Mathematical
Olympiad
(IMO), nearing
its 50th
anniversary,
has become
the most**

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**popular and
prestigious
competition
for high-
school
students
interested in
mathematics.
Only six
students from
each
participating**

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**country are
given the
honor of
participating
in this
competition
every year.
The IMO
represents not
only a great
opportunity to
tackle**

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**interesting
and
challenging
mathematics
problems, it
also offers a
way for high
school
students to
measure up
with students
from the rest**

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of the world.
Problems And
Solutions
**Until the first
edition of this
book**

**appearing in
2006, it has
been almost
impossible to
obtain a
complete
collection of
the problems**

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**proposed at
the IMO in
book form.**

**"The IMO
Compendium"
is the result of
a collaboration
between four
former IMO
participants
from
Yugoslavia,**

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**now Serbia
and
Montenegro,
to rescue
these
problems from
old and
scattered
manuscripts,
and produce
the ultimate
source of IMO**

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**practice
problems. This
book attempts
to gather all
the problems
and solutions
appearing on
the IMO
through 2009.
This second
edition
contains 143**

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**new problems,
picking up
where the
1959-2004
edition has left
off.**

**A unique
collection of
competition
problems from
over twenty
major national**

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and

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for high school
students.**

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trainers and
participants of
contests of all
levels up to
the highest**

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**level, this will
appeal to high
school**

**teachers
conducting a
mathematics
club who need
a range of
simple to
complex
problems and
to those**

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**instructors
wishing to
pose a**

**"problem of
the week",
thus bringing
a creative
atmosphere
into the
classrooms.
Equally, this is
a must-have**

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**for individuals
interested in
solving**

**difficult and
challenging
problems.**

**Each chapter
starts with
typical
examples
illustrating
the central**

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**concepts and
is followed by
a number of
carefully
selected
problems and
their
solutions.**

**Most of the
solutions are
complete, but
some merely**

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**point to the
road leading
to the final
solution. In
addition to
being a
valuable
resource of
mathematical
problems and
solution
strategies, this**

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**is the most
complete
training book
on the market.
This updated
printing of the
first edition of
Colorado
Mathematical
Olympiad: the
First Twenty
Years and**

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**Further
Explorations
gives the
interesting
history of the
competition as
well as an
outline of all
the problems
and solutions
that have been
created for the**

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**contest over
the years.**

**Many of the
essay
problems were
inspired by
Russian
mathematical
folklore and
written to suit
the young
audience; for**

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**example, the
1989 Sugar
problem was
written in a
pleasant Lewis
Carroll-like
story. Some
other
entertaining
problems
involve olde
Victorian map**

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**colourings,
King Authur
and the**

**knights of the
round table,
rooks in space,
Santa Claus
and his elves
painting
planes,
football for 23,
and even the**

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**Colorado
Springs** And
Solutions

**subway
system.**

**Problems and
Solutions in
Mathematical
Olympiad
(High School
1)**

**Problems and
Solutions in**

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**Mathematical
Olympiad
(Secondary 3)
Geometry
Problems and
Solutions from
Mathematical
Olympiads
Mathematical
Olympiads
1998-1999
Mathematical**

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**Olympiad in
Problems And
China
Solutions**

This is a great collection of geometry problems from Mathematical Olympiads and competitions around the world.

This is a

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challenging
Problems And
Solutions
problem-solving
book in

Euclidean
geometry,
assuming
nothing of the
reader other
than a good deal
of courage.

Topics covered
included cyclic

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quadrilaterals,
power of a point,
homothety,
triangle centers;
along the way
the reader will
meet such
classical gems
as the nine-point
circle, the
Simson line, the
symmedian and

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the mixtilinear incircle, as well as the theorems of Euler, Ceva, Menelaus, and Pascal. Another part is dedicated to the use of complex numbers and barycentric coordinates,

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granting the reader both a traditional and computational viewpoint of the material. The final part consists of some more advanced topics, such as inversion in the plane, the cross

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ratio and
projective
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transformations,
and the theory
of the complete
quadrilateral.

The exposition is
friendly and
relaxed, and
accompanied by
over 300
beautifully

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drawn figures.
The emphasis of
this book is
placed squarely
on the
problems. Each
chapter contains
carefully chosen
worked
examples, which
explain not only
the solutions to

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the problems
but also
describe in close
detail how one
would invent the
solution to begin
with. The text
contains a
selection of 300
practice
problems of
varying difficulty

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from contests
around the
world, with
extensive hints
and selected
solutions. This
book is
especially
suitable for
students
preparing for
national or

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international
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teachers looking
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