

THE WILLIAM LOWELL PUTNAM MATHEMATICAL COMPETITION

1985-2000

Problems,
Solutions
and Commentary

Kiran S. Kedlaya

Bjorn Poonen

Ravi Vakil



The Mathematical Association of America
MAA Problem Books

The William Lowell Putnam Mathematical Competition 1985 2000 Problems Solutions And Commentary Maa Problem

**Dušan Djukić, Vladimir Janković, Ivan
Matić, Nikola Petrović**



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The William Lowell Putnam Mathematical Competition 1985-2000 Kiran Sridhara Kedlaya, Bjorn Poonen, Ravi Vakil, 2002 A collection of problems from the William Lowell Putnam Competition which places them in the context of important mathematical themes

The William Lowell Putnam Mathematical Competition 1985-2000: Problems, Solutions, and Commentary Kiran S. Kedlaya, Bjorn Poonen, Ravi Vakil, 2020-01-16 This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes The authors highlight connections to other problems to the curriculum and to more advanced topics The best problems contain kernels of sophisticated ideas related to important current research and yet the problems are accessible to undergraduates The solutions have been compiled from the American Mathematical Monthly Mathematics Magazine and past competitors Multiple solutions enhance the understanding of the audience explaining techniques that have relevance to more than the problem at hand In addition the book contains suggestions for further reading a hint to each problem separate from the full solution and background information about the competition The book will appeal to students teachers professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics

The William Lowell Putnam Mathematical Competition 2001-2016: Problems, Solutions, and Commentary Kiran S. Kedlaya, Daniel M. Kane, Jonathan M. Kane, Evan M. O'Dorney, 2020-11-05 The William Lowell Putnam Mathematics Competition is the most prestigious undergraduate mathematics problem solving contest in North America with thousands of students taking part every year This volume presents the contest problems for the years 2001 2016 The heart of the book is the solutions these include multiple approaches drawn from many sources plus insights into navigating from the problem statement to a solution There is also a section of hints to encourage readers to engage deeply with the problems before consulting the solutions The authors have a distinguished history of engagement with and preparation of students for the Putnam and other mathematical competitions Collectively they have been named Putnam Fellow top five finisher ten times Kiran Kedlaya also maintains the online Putnam Archive

The William Lowell Putnam Mathematical Competition Gerald L. Alexanderson, Leonard F. Klosinski, Loren C. Larson, 2003 The Putnam Competition has since 1928 been providing a challenge to gifted college mathematics students This book the second of the Putnam Competition volumes contains problems with their solutions for the years 1965 1984 Additional solutions are presented for many of the problems Included is an essay on recollections of the first Putnam Exam by Herbert Robbins as well as appendices listing the winning teams and students from 1965 through 1984 This volume offers the problem solver an enticing sample of challenging problems and their solutions In 1980 the MAA published the first William Lowell Putnam Mathematical Competition book covering the contest from 1938 to 1964 In 2002 the third of the Putnam problem books appeared covering the years 1985 through 2000 All three of these books belong on

the bookshelf of students teachers and all interested in problem solving

The William Lowell Putnam Mathematical Competition A. M. Gleason, R. E. Greenwood, L. M. Kelly, 2019-07-24 Back by popular demand we are pleased to reissue this outstanding collection of problems and solutions from the Putnam Competitions covering the years 1938 1964 Problemists the world over including all past and future Putnam Competitors will revel in mastering the difficulties posed by this collection of problems from the first 25 William Lowell Putnam Competitions Solutions to all 347 problems are given In some cases multiple solutions are included some which contestants could reasonably be expected to find under examination conditions and others which are more elegant or utilize more sophisticated techniques Valuable references and historical comments on many of the problems are presented The book concludes with four articles on the Putnam competition written by G Birkhoff L E Bush L J Mordell and L M Kelly which are reprinted from the American Mathematical Monthly There is great appeal here for all teachers students and all those who love good problems and see them as an entree to beautiful and powerful ideas

Aha! Solutions Martin J. Erickson, 2009-01-22 Every mathematician beginner amateur and professional alike thrills to find simple elegant solutions to seemingly difficult problems Such happy resolutions are called aha solutions a phrase popularized by mathematics and science writer Martin Gardner Aha solutions are surprising stunning and scintillating they reveal the beauty of mathematics This book is a collection of problems with aha solutions The problems are at the level of the college mathematics student but there should be something of interest for the high school student the teacher of mathematics the math fan and anyone else who loves mathematical challenges This collection includes one hundred problems in the areas of arithmetic geometry algebra calculus probability number theory and combinatorics The problems start out easy and generally get more difficult as you progress through the book A few solutions require the use of a computer An important feature of the book is the bonus discussion of related mathematics that follows the solution of each problem This material is there to entertain and inform you or point you to new questions If you don't remember a mathematical definition or concept there is a Toolkit in the back of the book that will help

The IMO Compendium Dušan Djukić, Vladimir Janković, Ivan Matić, Nikola Petrović, 2011-05-05 The IMO Compendium is the ultimate collection of challenging high school level mathematics problems and is an invaluable resource not only for high school students preparing for mathematics competitions but for anyone who loves and appreciates mathematics The International Mathematical Olympiad IMO nearing its 50th anniversary has become the most popular and prestigious competition for high school students interested in mathematics Only six students from each participating country are given the honor of participating in this competition every year The IMO represents not only a great opportunity to tackle interesting and challenging mathematics problems it also offers a way for high school students to measure up with students from the rest of the world Until the first edition of this book appearing in 2006 it has been almost impossible to obtain a complete collection of the problems proposed at the IMO in book form The IMO Compendium is the result of a collaboration between four former

IMO participants from Yugoslavia now Serbia and Montenegro to rescue these problems from old and scattered manuscripts and produce the ultimate source of IMO practice problems This book attempts to gather all the problems and solutions appearing on the IMO through 2009 This second edition contains 143 new problems picking up where the 1959 2004 edition has left off *Problems from Murray Klamkin* Murray S. Klamkin, 2009-04-02 A collection of problems proposed by Murray

Klamkin over his career It contains the quickies problems with quick and neat solutions he proposed in *Crux*

Mathematicorum his longer problems and also problems which were proposed in tribute to him after he died Solutions are provided **Monthly Problem Gems** Hongwei Chen, 2021-07-05 This book is an outgrowth of a collection of sixty two

problems offered in the *The American Mathematical Monthly* AMM the author has worked over the last two decades Each selected problem has a central theme contains gems of sophisticated ideas connected to important current research and opens new vistas in the understanding of mathematics The AMM problem section provides one of the most challenging and interesting problem sections among the various journals and online sources currently available The published problems and solutions have become a treasure trove rife with mathematical gems The author presents either his published solution in the AMM or an alternative solution to the published one to present and develop problem solving techniques A rich glossary of important theorems and formulas is included for easy reference The reader may regard this book as a starter set for AMM problems providing a jumping of point to new ideas and extending their personal lexicon of problems and solutions This collection is intended to encourage the reader to move away from routine exercises toward creative solutions as well as offering the reader a systematic illustration of how to organize the transition from problem solving to exploring investigating and discovering new results **Math Horizons** , 1993 **Excursions in Classical Analysis** Hongwei Chen, 2010-12-31

Excursions in Classical Analysis will introduce students to advanced problem solving and undergraduate research in two ways it will provide a tour of classical analysis showcasing a wide variety of problems that are placed in historical context and it will help students gain mastery of mathematical discovery and proof The Author presents a variety of solutions for the problems in the book Some solutions reach back to the work of mathematicians like Leonhard Euler while others connect to other beautiful parts of mathematics Readers will frequently see problems solved by using an idea that at first glance might not even seem to apply to that problem Other solutions employ a specific technique that can be used to solve many different kinds of problems *Excursions* emphasizes the rich and elegant interplay between continuous and discrete mathematics by applying induction recursion and combinatorics to traditional problems in classical analysis The book will be useful in students preparations for mathematics competitions in undergraduate reading courses and seminars and in analysis courses as a supplement The book is also ideal for self study since the chapters are independent of one another and may be read in any order **Combined Membership List, 2002-2003** , 2003 This is a comprehensive directory of the membership of the

American Mathematical Society the American Mathematical Association of Two Year Colleges the Association for Women in

Mathematics the Mathematical Association of America and the Society for Industrial and Applied Mathematics It includes a complete alphabetical list of all individual members in all five organizations For each member the CML provides an address title department institution telephone number if available and electronic address if indicated and also indicates membership in the five participating societies In addition the CML lists academic institutional and corporate members of the five participating societies providing addresses and telephone numbers of mathematical sciences departments The CML is distributed on request to AMS members in even numbered years MAA members can request the CML in odd numbered years from the MAA The CML should prove a useful reference for keeping in touch with colleagues and for making connections in the mathematical sciences community in the US and abroad

The William Lowell Putnam Mathematical Competition

Gerald L. Alexanderson, Leonard F. Klosinski, Loren C. Larson, 2018-12-05 The Putnam Competition has been providing a challenge to gifted college mathematics students since 1928 This book the second of the Putnam Competition volumes contains problems with their solutions for the years 1965 1984 Additional solutions are presented for many of the problems Included is an essay on recollections of the first Putnam Exam by Herbert Robbins as well as appendices listing the winning teams and students from 1965 through 1984 This volume offers the problem solver an enticing sample of challenging problems and their solutions

The Contest Problem Book IX David Wells, J. Douglas Faires, 2021-02-22 This is the ninth book of problems and solutions from the American Mathematics Competitions AMC contests It chronicles 325 problems from the thirteen AMC 12 contests given in the years between 2001 and 2007 The authors were the joint directors of the AMC 12 and the AMC 10 competitions during that period The problems have all been edited to ensure that they conform to the current style of the AMC 12 competitions Graphs and figures have been redrawn to make them more consistent in form and style and the solutions to the problems have been both edited and supplemented A problem index at the back of the book classifies the problems into subject areas of Algebra Arithmetic Complex Numbers Counting Functions Geometry Graphs Logarithms Logic Number Theory Polynomials Probability Sequences Statistics and Trigonometry A problem that uses a combination of these areas is listed multiple times The problems on these contests are posed by members of the mathematical community in the hope that all secondary school students will have an opportunity to participate in problem solving and an enriching mathematical experience

Mathematical Reviews, 2003

The Contest Problem Book VIII

J. Douglas Faires, David Wells, 2022-02-25 For more than 50 years the Mathematical Association of America has been engaged in the construction and administration of challenging contests for students in American and Canadian high schools The problems for these contests are constructed in the hope that all high school students interested in mathematics will have the opportunity to participate in the contests and will find the experience mathematically enriching These contests are intended for students at all levels from the average student at a typical school who enjoys mathematics to the very best students at the most special school In the year 2000 the Mathematical Association of America initiated the American Mathematics

Competitions 10 AMC 10 for students up to grade 10 The Contest Problem Book VIII is the first collection of problems from that competition covering the years 2001-2007 J Douglas Faires and David Wells were the joint directors of the AMC 10 and AMC 12 during that period and have assembled this book of problems and solutions There are 350 problems from the first 14 contests included in this collection A Problem Index at the back of the book classifies the problems into the following major subject areas Algebra and Arithmetic Sequences and Series Triangle Geometry Circle Geometry Quadrilateral Geometry Polygon Geometry Counting Coordinate Geometry Solid Geometry Discrete Probability Statistics Number Theory and Logic The major subject areas are then broken down into subcategories for ease of reference The problems are cross referenced when they represent several subject areas

Mathematical Olympiads 2000-2001 Titu Andreescu, Zuming Feng, George Lee, 2003-10-16 Problems and solutions from Mathematical Olympiad Ideal for anyone interested in mathematical problem solving

Euclidean Geometry in Mathematical Olympiads Evan Chen, 2016-05-02 This is a challenging problem solving book in Euclidean geometry assuming nothing of the reader other than a good deal of courage Topics covered included cyclic 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 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 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 ratio and projective transformations and the theory of the complete quadrilateral The exposition is friendly and relaxed and accompanied by over 300 beautifully 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 the problems but also describe in close detail how one would invent the solution to begin with The text contains as selection of 300 practice problems of varying difficulty from contests around the world with extensive hints and selected solutions This book is especially suitable for students preparing for national or international mathematical olympiads or for teachers looking for a text for an honor class

Mathematics via Problems: Part 2: Geometry Alexey A. Zaslavsky, Mikhail B. Skopenkov, 2021-08-24 This book is a translation from Russian of Part II of the book Mathematics Through Problems From Olympiads and Math Circles to Profession Part I Algebra was recently published in the same series Part III Combinatorics will be published soon The main goal of this book is to develop important parts of mathematics through problems The authors tried to put together sequences of problems that allow high school students and some undergraduates with strong interest in mathematics to discover and recreate much of elementary mathematics and start edging into more sophisticated topics such as projective and affine geometry solid geometry and so on thus building a bridge between standard high school exercises and more intricate notions in geometry Definitions and or references for material that is not standard in the school curriculum are included To help students that might be unfamiliar with new material problems are carefully arranged to

provide gradual introduction into each subject Problems are often accompanied by hints and or complete solutions The book is based on classes taught by the authors at different times at the Independent University of Moscow at a number of Moscow schools and math circles and at various summer schools It can be used by high school students and undergraduates their teachers and organizers of summer camps and math circles In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people their parents and teachers and the mathematics profession

A Gentle Introduction to the American Invitational Mathematics Exam Scott A. Annin, 2015-11-16 This book is a celebration of mathematical problem solving at the level of the high school American Invitational Mathematics Examination There is no other book on the market focused on the AIME It is intended in part as a resource for comprehensive study and practice for the AIME competition for students teachers and mentors After all serious AIME contenders and competitors should seek a lot of practice in order to succeed However this book is also intended for anyone who enjoys solving problems as a recreational pursuit The AIME contains many problems that have the power to foster enthusiasm for mathematics the problems are fun engaging and addictive The problems found within these pages can be used by teachers who wish to challenge their students and they can be used to foster a community of lovers of mathematical problem solving There are more than 250 fully solved problems in the book containing examples from AIME competitions of the 1980 s 1990 s 2000 s and 2010 s In some cases multiple solutions are presented to highlight variable approaches To help problem solvers with the exercises the author provides two levels of hints to each exercise in the book one to help stuck starters get an idea how to begin and another to provide more guidance in navigating an approach to the solution

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