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William Lowell
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Problem **A-1**

The 78th William Lowell Putnam Mathematical Competition 2017

A1. Let S be the smallest set of positive integers such that

- a) 2 is in S ,
- b) n is in S whenever n^2 is in S , and
- c) $(n+5)^2$ is in S whenever n is in S .

Which positive integers are not in S ?

(The set S is "smallest" in the sense that S is contained in any other such set.)

A2. Let $Q_0(x) = 1$, $Q_1(x) = x$, and

$$Q_n(x) = \frac{(Q_{n-1}(x))^2 - 1}{Q_{n-2}(x)}$$

for all $n \geq 2$. Show that, whenever n is a positive integer, $Q_n(x)$ is equal to a polynomial with integer coefficients.

A3. Let a and b be real numbers with $a < b$, and let f and g be continuous functions from $[a, b]$ to $(0, \infty)$ such that $\int_a^b f(x) dx = \int_a^b g(x) dx$ but $f \neq g$. For every positive integer n , define

$$I_n = \int_a^b \frac{(f(x))^{n+1}}{(g(x))^n} dx.$$

Show that I_1, I_2, I_3, \dots is an increasing sequence with $\lim_{n \rightarrow \infty} I_n = \infty$.

Putnam Exam Challenge Answers

Steven George Krantz



Putnam Exam Challenge Answers

The William Lowell Putnam Mathematical Competition 1985-2000 Kiran Sridhara Kedlaya, Bjorn Poonen, Ravi Vakil, 2002 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 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

Putnam and Beyond Răzvan Gelca, Titu Andreescu, 2017-09-19 This book takes the reader on a journey through the world of college mathematics focusing on some of the most important concepts and results in the theories of polynomials linear algebra real analysis differential equations coordinate geometry trigonometry elementary number theory combinatorics and probability Preliminary material provides an overview of common methods of proof argument by contradiction mathematical induction pigeonhole principle ordered sets and invariants Each chapter systematically presents a single subject within which problems are clustered in each section according to the specific topic The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world many original contributions come from the authors The source author and historical background are cited whenever possible Complete solutions to all problems are given at the end of the book This second edition includes new sections on quadratic polynomials curves in the plane quadratic fields combinatorics of numbers and graph theory and added problems or theoretical expansion of sections on polynomials matrices abstract algebra limits of

sequences and functions derivatives and their applications Stokes theorem analytical geometry combinatorial geometry and counting strategies Using the W L Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics the reader is eased into transitioning from problem solving at the high school level to the university and beyond that is to mathematical research This work may be used as a study guide for the Putnam exam as a text for many different problem solving courses and as a source of problems for standard courses in undergraduate mathematics Putnam and Beyond is organized for independent study by undergraduate and graduate students as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons

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 *The William Lowell Putnam Mathematical Competition Problems and Solutions* Andrew M. Gleason, R. E. Greenwood, Leroy Milton Kelly, 1980 Back by popular demand the MAA is 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 Back cover *The William Lowell Putnam Mathematical Competition* Gerald L. Alexanderson, Leonard F. Klosinski, Loren C. Larson, 2004-10-14 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 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 Art and Craft of Problem Solving Paul Zeitz, 2017

This text on mathematical problem solving provides a comprehensive outline of problem solving concentrating on strategy and tactics It discusses a number of standard mathematical subjects such as combinatorics and calculus from a problem solver's perspective

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

Problem-Solving Strategies Arthur Engel, 2008-01-19 A unique collection of competition problems from over twenty major national and international mathematical competitions for high school students Written for trainers and participants of contests of all levels up to the highest level this will appeal to high school teachers conducting a mathematics club who need a range of simple to complex problems and to those instructors wishing to pose a problem of the week thus bringing a creative atmosphere into

the classrooms Equally this is a must have for individuals interested in solving difficult and challenging problems Each chapter starts with typical examples illustrating the central concepts and is followed by a number of carefully selected problems and their solutions Most of the solutions are complete but some merely point to the road leading to the final solution In addition to being a valuable resource of mathematical problems and solution strategies this is the most complete training book on the market

Problem-Solving Through Problems Loren C. Larson, 2012-12-06 This is a practical anthology of some of the best elementary problems in different branches of mathematics Arranged by subject the problems highlight the most common problem solving techniques encountered in undergraduate mathematics This book teaches the important principles and broad strategies for coping with the experience of solving problems It has been found very helpful for students preparing for the Putnam exam

The William Lowell Putnam Mathematical Competition A. M. GLEASON; R. E. GREENWOOD; L. M. KELLY., A. M. Gleason, 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

Mathematical Olympiad Challenges Titu Andreescu, Răzvan Gelca, 2000-04-26 A collection of problems put together by coaches of the U S International Mathematical Olympiad Team

Calculus: A Rigorous First Course Daniel J. Velleman, 2017-01-18 Designed for undergraduate mathematics majors this rigorous and rewarding treatment covers the usual topics of first year calculus limits derivatives integrals and infinite series Author Daniel J Velleman focuses on calculus as a tool for problem solving rather than the subject's theoretical foundations Stressing a fundamental understanding of the concepts of calculus instead of memorized procedures this volume teaches problem solving by reasoning not just calculation The goal of the text is an understanding of calculus that is deep enough to allow the student to not only find answers to problems but also achieve certainty of the answers correctness No background in calculus is necessary Prerequisites include proficiency in basic algebra and trigonometry and a concise review of both areas provides sufficient background Extensive problem material appears throughout the text and includes selected answers Complete solutions are available to instructors

A Mathematical Mosaic Ravi Vakil, 1996 Powerful problem solving ideas that focus on the major branches of mathematics and their interconnections

A Path to Combinatorics for Undergraduates Titu Andreescu, Zuming Feng, 2013-12-01 This unique approach to combinatorics is centered around unconventional essay type combinatorial examples followed by a number of carefully selected challenging problems and extensive discussions of their solutions Topics encompass permutations and combinations binomial coefficients and their applications bijections inclusions and exclusions and generating functions Each chapter features fully worked problems including many from Olympiads and

other competitions as well as a number of problems original to the authors at the end of each chapter are further exercises to reinforce understanding encourage creativity and build a repertory of problem solving techniques The authors previous text 102 Combinatorial Problems makes a fine companion volume to the present work which is ideal for Olympiad participants and coaches advanced high school students undergraduates and college instructors The book s unusual problems and examples will interest seasoned mathematicians as well A Path to Combinatorics for Undergraduates is a lively introduction not only to combinatorics but to mathematical ingenuity rigor and the joy of solving puzzles The Survival of a Mathematician Steven George Krantz,2009 One of the themes of the book is how to have a fulfilling professional life In order to achieve this goal Krantz discusses keeping a vigorous scholarly program going and finding new challenges as well as dealing with the everyday tasks of research teaching and administration In short this is a survival manual for the professional mathematician both in academics and in industry and government agencies It is a sequel to the author s A Mathematician s Survival Guide BOOK JACKET **Mathematical Olympiad in China (2007-2008)** Bin Xiong,Peng Yee Lee,2009 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 with a multitude of golds 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 Competition during the winter months This volume comprises a collection of original problems with solutions that China used to train their Olympiad team in the years from 2006 to 2008 Mathematical Olympiad problems with solutions for the years 2002 2006 appear in an earlier volume Mathematical Olympiad in China **The Crucible** Arthur Miller,1982 ,

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