

# 2016 AIME II Problem 6

$a_i$ 's: coefficients of  $Q(x)$

For polynomial  $P(x) = 1 - \frac{1}{3}x + \frac{1}{6}x^2$ , define

$$\underline{Q(x)} = \underline{P(x)}P(x^3)P(x^5)P(x^7)P(x^9) = \sum_{i=0}^{150} a_i x^i. \text{ Then } \sum_{i=0}^{50} |a_i| = \frac{m}{n},$$

where  $m$  and  $n$  are relatively prime positive integers. Find  $m + n$ .

$Q(x)$

$$Q(x) = \underline{a_0} + \underline{a_1}x + \underline{a_2}x^2 + \dots + a_{50}x^{50}$$

$$= \left(1 - \frac{1}{3}x + \frac{1}{6}x^2\right) \left(1 - \frac{1}{3}x^3 + \frac{1}{6}x^6\right) \left(1 - \frac{1}{3}x^5 + \frac{1}{6}x^{10}\right)$$

$$\left(1 - \frac{1}{3}x^7 + \frac{1}{6}x^{14}\right) \left(1 - \frac{1}{3}x^9 + \frac{1}{6}x^{18}\right)$$

# Aime Problems And Solutions

**Yongcheng Chen**



## Aime Problems And Solutions

[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

**Euclidean Geometry in Mathematical Olympiads** Evan Chen, 2021-08-23 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 a 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

**The Art of Problem Solving: pt. 2 And beyond solutions manual** Sandor Lehoczky, Richard Rusczyk, 2006 offer s a challenging exploration of problem solving mathematics and preparation for programs such as MATHCOUNTS and the American Mathematics Competition Back cover

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*102 Combinatorial Problems* Titu Andreescu, Zuming Feng, 2013-11-27 102 Combinatorial Problems consists of carefully selected problems that have been used in the training and testing of the USA International Mathematical Olympiad IMO team Key features Provides in depth enrichment in the important areas of combinatorics by reorganizing and enhancing problem solving tactics and strategies Topics include combinatorial arguments and identities generating functions graph theory recursive relations sums and products probability number theory polynomials theory of equations complex numbers in geometry algorithmic proofs combinatorial and advanced geometry functional equations and classical inequalities The book is systematically organized gradually building combinatorial skills and techniques and broadening the student's view of mathematics Aside from its practical use in training teachers and students engaged in mathematical competitions it is a source of enrichment that is bound to stimulate interest in a variety of mathematical areas that are tangential to combinatorics

*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

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*Introduction to Counting and Probability* David Patrick, 2007-08

**First Steps for Math Olympians** J. Douglas Faires,2006-12-21 A major aspect of mathematical training and its benefit to society is the ability to use logic to solve problems The American Mathematics Competitions have been given for more than fifty years to millions of students This book considers the basic ideas behind the solutions to the majority of these problems and presents examples and exercises from past exams to illustrate the concepts Anyone preparing for the Mathematical Olympiads will find many useful ideas here but people generally interested in logical problem solving should also find the problems and their solutions stimulating The book can be used either for self study or as topic oriented material and samples of problems for practice exams Useful reading for anyone who enjoys solving mathematical problems and equally valuable for educators or parents who have children with mathematical interest and ability

**The Art and Craft of Problem Solving** Paul Zeitz,2017 This text on mathematical problem solving provides a comprehensive outline of problemsolving ology concentrating on strategy and tactics It discusses a number of standard mathematical subjects such as combinatorics and calculus from a problem solver s perspective

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**Introduction to Geometry** Richard Rusczyk,2007-07-01

**103 Trigonometry Problems** Titu Andreescu,Zuming Feng,2006-03-04 Problem solving tactics and practical test taking techniques provide in depth enrichment and preparation for various math competitions Comprehensive introduction to trigonometric functions their relations and functional properties and their applications in the Euclidean plane and solid geometry A cogent problem solving resource for advanced high school students undergraduates and mathematics teachers engaged in competition training

*Practice Word Problems* Cleo Borac, Silviu Borac, 2013-08-25 About Competitive Mathematics for Gifted Students This series provides practice materials and short theory reminders for students who aim to excel at problem solving Material is introduced in a structured manner each new concept is followed by a problem set that explores the content in detail Each book ends with a problem set that reviews both concepts presented in the current volume and related topics from previous volumes The series forms a learning continuum that explores strategies specific to competitive mathematics in depth and breadth Full solutions explain both reasoning and execution Often several solutions are contrasted The problem selection emphasizes comprehension critical thinking observation and avoiding repetitive and mechanical procedures Ready to participate in a math competition such as MOEMS AMC 8 Math Kangaroo in USA or MATHCOUNTS This series will open the doors to consistent performance About Level 3 This level of the series is designed for students who can solve linear equations are fluent with fractions and can factor into primes The problem sets are designed to strengthen specific areas where we know students have difficulty on AMC 8 and AMC 10 The level 2 books are a strong preparation for AMC 8 and a partial preparation for AMC 10 Level 2 consists of Word Problems volume 9 Operations and Algebra volume 10 Arithmetic and Number Theory volume 11 and Combinatorics volume 12 On the contest list for this level MATHCOUNTS Math Kangaroo levels 5 6 and 7 8 MOEMS M Purple Comet AMC 8 The computational complexity makes these problem sets useful for preparing AIME in the long run About Volume 9 Word Problems The problem sets offer a variety of applications of fractions decimals and percentages Some of the most dreaded categories of problems are thoroughly represented mixtures rates and problems that engage comprehension Mixture problems are among the problems that are underrepresented in other resources while being some of the more challenging word problems on AMC 10 The computational complexity familiarizes students with AIME level problems albeit the easier problems on AIME The full solutions provide insight in the optimal order of operations and a thorough description of the solving strategies

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*Principles and Techniques in Combinatorics* Chuan-Chong Chen, Khee Meng Koh, Koh Khee-Meng, 1992 A textbook suitable for undergraduate courses The materials are presented very explicitly so that students will find it very easy to read A wide range of examples about 500 combinatorial problems taken from various mathematical competitions and exercises are also included

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web metode penelitian ini menggunakan metode perancangan pembuatan dan eksperimen mesin penetas telur hasil penelitian ini menghasilkan satu unit mesin penetas telur otomatis menggunakan mikrokontroler arduino uno kapasitas maksimal 288 butir telur dimensi mesin panjang 80 cm tinggi 75 cm dan lebar 40 cm

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web penetas telur ayam ini maka suhu kelembaban dan pemutar telur dapat diatur dengan bantuan mikrokontroler arduino uno yang dilengkapi dengan sensor suhu sensor kelembaban motor synchronous lampu pijar sebagai pengatur suhunya dan buzzer yang berfungsi sebagai alarm saat memantau kelembaban

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web adapun komponen pendukung tersebut diantaranya pembuatan rangkaian minimum sistem atmega8535 sebagai otak dari alat ini yang nantinya akan diisikan program melalui komputer dengan menggunakan avr ospi atmega 8535 sensor sht11 untuk mendeteksi suhu dan kelembaban yang ada dalam mesin penetas lcd untuk menampilkan data

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