

# 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**



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**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

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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

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## **Table of Contents Aime Problems And Solutions**

1. Understanding the eBook Aime Problems And Solutions
  - The Rise of Digital Reading Aime Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Aime Problems And Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aime Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aime Problems And Solutions
  - Personalized Recommendations

- Aime Problems And Solutions User Reviews and Ratings
- Aime Problems And Solutions and Bestseller Lists
- 5. Accessing Aime Problems And Solutions Free and Paid eBooks
  - Aime Problems And Solutions Public Domain eBooks
  - Aime Problems And Solutions eBook Subscription Services
  - Aime Problems And Solutions Budget-Friendly Options
- 6. Navigating Aime Problems And Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Aime Problems And Solutions Compatibility with Devices
  - Aime Problems And Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aime Problems And Solutions
  - Highlighting and Note-Taking Aime Problems And Solutions
  - Interactive Elements Aime Problems And Solutions
- 8. Staying Engaged with Aime Problems And Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aime Problems And Solutions
- 9. Balancing eBooks and Physical Books Aime Problems And Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aime Problems And Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Aime Problems And Solutions
  - Setting Reading Goals Aime Problems And Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aime Problems And Solutions
  - Fact-Checking eBook Content of Aime Problems And Solutions



- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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