

AIME Problems 2011

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– March 16th

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- 1** Jar A contains four liters of a solution that is 45% acid. Jar B contains five liters of a solution that is 48% acid. Jar C contains one liter of a solution that is $k\%$ acid. From jar C, $\frac{m}{n}$ liters of the solution is added to jar A, and the remainder of the solution in jar C is added to jar B. At the end, both jar A and jar B contain solutions that are 50% acid. Given that m and n are relatively prime positive integers, find $k + m + n$.
-
- 2** In rectangle $ABCD$, $AB = 12$ and $BC = 10$. Points E and F lie inside rectangle $ABCD$ so that $BE = 9$, $DF = 8$, $\overline{BE} \parallel \overline{DF}$, $\overline{EF} \parallel \overline{AB}$, and line BE intersects segment \overline{AD} . The length EF can be expressed in the form $m\sqrt{n} - p$, where m , n , and p are positive integers and n is not divisible by the square of any prime. Find $m + n + p$.
-
- 3** Let L be the line with slope $\frac{2}{13}$ that contains the point $A = (24, -1)$, and let M be the line perpendicular to line L that contains the point $B = (5, 6)$. The original coordinate axes are erased, and line L is made the x -axis, and line M the y -axis. In the new coordinate system, point A is on the positive x -axis, and point B is on the positive y -axis. The point P with coordinates $(-14, 27)$ in the original system has coordinates (α, β) in the new coordinate system. Find $\alpha + \beta$.
-
- 4** In triangle ABC , $AB = 125$, $AC = 117$, and $BC = 120$. The angle bisector of angle A intersects \overline{BC} at point L , and the angle bisector of angle B intersects \overline{AC} at point K . Let M and N be the feet of the perpendiculars from C to \overline{BK} and \overline{AL} , respectively. Find MN .
-
- 5** The vertices of a regular nonagon (9-sided polygon) are to be labeled with the digits 1 through 9 in such a way that the sum of the numbers on every three consecutive vertices is a multiple of 3. Two acceptable arrangements are considered to be indistinguishable if one can be obtained from the other by rotating the nonagon in the plane. Find the number of distinguishable acceptable arrangements.
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- 6** Suppose that a parabola has vertex $(\frac{1}{2}, -\frac{2}{3})$, and equation $y = ax^2 + bx + c$, where $a > 0$ and $a + b + c$ is an integer. The minimum possible value of a can be written as $\frac{p}{q}$, where p and q are relatively prime positive integers. Find $p + q$.
-
- 7** Find the number of positive integers m for which there exist nonnegative integers $x_0, x_1, \dots, x_{2011}$

Aime 2012 Solutions

Courtney A. Young



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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

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Contrast Agents for MRI Valérie C Pierre, Matthew J Allen, 2017-11-09 As a practical reference guide for designing and performing experiments this book focuses on the five most common classes of contrast agents for MRI namely gadolinium complexes chemical exchange saturation transfer agents iron oxide nanoparticles manganese complexes and fluorine contrast agents It describes how to characterize and evaluate them and for each class a description of the theory behind their mechanisms is discussed briefly to orient the new reader Detailed subchapters discuss the different physical chemistry methods used to characterize them in terms of their efficacy safety and in vivo behavior Important consideration is also given to the different physical properties that affect the performance of the contrast agents The editors and contributors are at the forefront of research in the field of MRI contrast agents and this unique cutting edge

book is a timely addition to the literature in this area

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 Courtney A. Young, 2019-02-01 This landmark publication distills the body of knowledge that characterizes mineral processing and extractive metallurgy as disciplinary fields It will inspire and inform current and future generations of minerals and metallurgy professionals Mineral processing and extractive metallurgy are atypical disciplines requiring a combination of knowledge experience and art Investing in this trove of valuable information is a must for all those involved in the industry students engineers mill managers and operators More than 192 internationally recognized experts have contributed to the handbook s 128 thought provoking chapters that examine nearly every aspect of mineral processing and extractive metallurgy This inclusive reference addresses the magnitude of traditional industry topics and also addresses the new technologies and important cultural and social issues that are important today Contents Mineral Characterization and Analysis Management and Reporting Comminution Classification and Washing Transport and Storage Physical Separations Flotation Solid and Liquid Separation Disposal Hydrometallurgy Pyrometallurgy Processing of Selected Metals Minerals and Materials

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