2022 AMC 10A Problems

Problem 1

What is the value of

$$3 + \cfrac{1}{3 + \cfrac{1}{3 + \frac{1}{3}}}?$$

(A) $\dfrac{31}{10}$ (B) $\dfrac{49}{15}$ (C) $\dfrac{33}{10}$ (D) $\dfrac{109}{33}$ (E) $\dfrac{15}{4}$

Problem 2

Mike cycled 15 laps in 57 minutes. Assume he cycled at a constant speed throughout. Approximately how many laps did he complete in the first 27 minutes?

(A) 5   (B) 7   (C) 9   (D) 11   (E) 13

Problem 3

The sum of three numbers is 96. The first number is 6 times the third number, and the third number is 40 less than the second number. What is the absolute value of the difference between the first and second numbers?

(A) 1   (B) 2   (C) 3   (D) 4   (E) 5

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    The Contest Problem Book VIII J. Douglas Faires,Dave Wells,2008 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 on 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 The Contest Problem Book VII: American Mathematics Competitions, 1995–2000 Contests Harold B. Reiter,2019-01-24 This is the seventh book of problems and solutions from the Mathematics Competitions Contest Problem Book VII chronicles 275 problems from the American Mathematics Contests AMC 12 and AMC 10 for the years 1995 through 2000 including the 50th Anniversary AHSME issued in 1999 Twenty three additional problems with solutions are included A Problem Index classifies the 275 problems in to the following subject areas Algebra Complex Numbers Discrete Mathematics including Counting Problems Logic and Discrete Probability Geometry including Three Dimensional Geometry Number Theory including Divisibility Representation and Modular Arithmetic Statistics and Trigonometry For over 50 years many excellent exams have been prepared by individuals throughout our mathematical community in the hope that all secondary school students will have an opportunity to participate in these problem solving and enriching mathematics experiences The American Mathematics Contests are intended for everyone from the average student at a typical school who enjoys mathematics to the very best student at the most special school **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 *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 **The Alberta High School Math Competitions 1957-2006** Andrew Chiang-Fung Liu,2008 Presents the problems and answers for the first 50 years of the Alberta High School Mathematics Competition up to 2005 2006 Full solutions are provided to those from the Modern period often supplemented with multiple solutions or additional commentaries **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 **Articles and Excerpts, Volume 1** AoPS Incorporated,2006 **First Steps for Math Olympians: Using the American Mathematics Competitions** J. Douglas Faires,2020-10-26 Any high school student preparing for the American Mathematics Competitions should get their hands on a copy of this book A major aspect of mathematical training and its benefit to society is the ability to use logic to solve problems The American Mathematics

Competitions AMC have been given for more than fifty years to millions of high school 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 taking the AMC exams or helping students prepare for them will find many useful ideas here But people generally interested in logical problem solving should also find the problems and their solutions interesting This book will promote interest in mathematics by providing students with the tools to attack problems that occur on mathematical problem solving exams and specifically to level the playing field for those who do not have access to the enrichment programs that are common at the top academic high schools The book can be used either for self study or to give people who want to help students prepare for mathematics exams easy access to topic oriented material and samples of problems based on that material This is useful for teachers who want to hold special sessions for students but it is equally valuable for parents who have children with mathematical interest and ability As students problem solving abilities improve they will be able to comprehend more difficult concepts requiring greater mathematical ingenuity They will be taking their first steps towards becoming math Olympians   *The Contest Problem Book IX* Dave Wells,J. Douglas Faires,2008-12-18 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   **The American Mathematical Monthly** ,2009   **AMC 10 Preparation Book** Nairi Sedrakyan,Hayk Sedrakyan,2021-04-10 This book consists only of author created problems with author prepared solutions never published before and it is intended as a teacher s manual of mathematics a self study handbook for high school students and mathematical competitors interested in AMC 10 American Mathematics Competitions The book teaches problem solving strategies and aids to improve problem solving skills The book includes a list of the most useful theorems and formulas for AMC 10 it also includes 12 sets of author created AMC 10 type practice tests 300 author created AMC 10 type problems and their detailed solutions National Math Competition Preparation NMCP program of RSM used part of these 12 sets of practice tests to train students for AMC 10 as a result 75 percent of NMCP high school students qualified for AIME The authors provide both a list of answers for all 12 sets of author created AMC 10

type practice tests and author prepared solutions for each problem About the authors Hayk Sedrakyan is an IMO medal winner professional mathematical Olympiad coach in greater Boston area Massachusetts USA He is the Dean of math competition preparation department at RSM He has been a Professor of mathematics in Paris and has a PhD in mathematics optimal control and game theory from the UPMC Sorbonne University Paris France Hayk is a Doctor of mathematical sciences in USA France Armenia and holds three master s degrees in mathematics from institutions in Germany Austria Armenia and has spent a small part of his PhD studies in Italy Hayk Sedrakyan has worked as a scientific researcher for the European Commission sadco project and has been one of the Team Leaders at Harvard MIT Mathematics Tournament HMMT He took part in the International Mathematical Olympiads IMO in United Kingdom Japan and Greece Hayk has been elected as the President of the students general assembly and a member of the management board of Cite Internationale Universitaire de Paris 10 000 students 162 different nationalities and the same year they were nominated for the Nobel Peace Prize Nairi Sedrakyan is involved in national and international mathematical Olympiads having been the President of Armenian Mathematics Olympiads and a member of the IMO problem selection committee He is the author of the most difficult problem ever proposed in the history of the International Mathematical Olympiad IMO 5th problem of 37th IMO This problem is considered to be the hardest problems ever in the IMO because none of the members of the strongest teams national Olympic teams of China USA Russia succeeded to solve it correctly and because national Olympic team of China the strongest team in the IMO obtained a cumulative result equal to 0 points and was ranked 6th in the final ranking of the countries instead of the usual 1st or 2nd place The British 2014 film X Y released in the USA as A Brilliant Young Mind inspired by the film Beautiful Young Minds focuses on an English mathematical genius chosen to represent the United Kingdom at the IMO also states that this problem is the hardest problem ever proposed in the history of the IMO minutes 9 40 10 30 Nairi Sedrakyan s students including his son Hayk Sedrakyan have received 20 medals in the International Mathematical Olympiad IMO including Gold and Silver medals   American Mathematics Competitions (AMC 10) Preparation (Volume 1) Yongcheng Chen,2015-12-18 This book can be used by 6th to 10th grade students preparing for AMC 10 Each chapter consists of 1 basic skill and knowledge section with examples 2 plenty of exercise problems and 3 detailed solutions to all problems Training class is offered http www mymathcounts com Copied 2015 Summer AMC 10 Training Program php   Choice ,2006   **The Mathematics Teacher** ,2006   **Statistical Moments of the Solution of the Random Burgers-Riemann Problem** M. Cristina C. Cunha,2007   **Defects and Diffusion in Semiconductors XIV** David Fisher,2012-12-04 An Annual Retrospective XIV Selected peer reviewed papers only   **Crux Mathematicorum with Mathematical Mayhem** ,2007 Problem solving journal at the senior secondary and university undergraduate levels for those who practice or teach mathematics Primarily educational in purpose it also serves those who read it for professional cultural and recreational reasons   **American Mathematics Competitions (AMC 10) Preparation (Volume 2)** Assisant

Professor Chen,Yongcheng Chen,2015-12-15 This book can be used by 6th to 10th grade students preparing for AMC 10 Each chapter consists of 1 basic skill and knowledge section with examples 2 plenty of exercise problems and 3 detailed solutions to all problems Training class is offered http www mymathcounts com Copied 2015 Summer AMC 10 Training Program php USA and International Mathematical Olympiads, 2001 Titu Andreescu,Zuming Feng,2002 The Mathematical Olympiad examinations covering the USA Mathematical Olympiad USAMO and the International Mathematical Olympiad IMO have been published annually by the MAA American Mathematics Competitions since 1976 The IMO is the world mathematics championship for high school students It takes place annually in a different country The IMO competitions help to discover encourage and challenge mathematically gifted young people all over the world The USAMO and the Team Selection Test TST are the last two stages of the selection process leading to representing the United States of America in the IMO The preceding examinations are the AMC 10 or AMC 12 and the American Invitational Mathematics Examination AIME Participation in the AIME USAMO and the TST is by invitation only based on performance in the preceding exams of the sequence Through the AMC contests and the IMO young gifted mathematicians are identified and recognized while they are still in secondary school Participation in these competitions provides them with the chance to measure themselves against other exceptional students from all over the world Editors Andreescu and Feng provide remarkable solutions developed by the examination committees contestants and experts during or after the contests They also provide a detailed report of the 1995 2000 USAMO IMO results and a comprehensive guide to other materials emphasizing advanced problem solving This collection of excellent problems and beautiful solutions is a valuable companion for students who wish to develop their interest in mathematics outside the school curriculum and to deepen their knowledge of mathematics *Mathematics Teaching in the Middle School* ,2004

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