

২২. $\frac{2}{3}(a+b)^2$ এবং $\frac{4}{9}(a+b)$ এর গ. সা. ও নিচের কোনটি ?

- (ক) $\frac{2}{3}(a+b)$ (খ) $\frac{4}{9}(a+b)^2$
(গ) $\frac{2}{3}(a+b)^2$ (ঘ) $\frac{8}{9}(a+b)$

২৩. $A \cup B$ কে সেট পঠন পদ্ধতিতে কিভাবে প্রকাশ করা যায় ?

- (ক) $\{x : x \in A \text{ এবং } x \in B\}$
(খ) $\{x : x \in A \text{ অথবা } x \in B\}$
(গ) $\{x : x \in A \text{ এবং } B\}$
(ঘ) $\{x : x \in A, B\}$

২৪. $\{x : x \text{ স্বাভাবিক সংখ্যা এবং } 6 < x < 7\}$ নিচের কোনটি সঠিক ?

- (ক) $\{ \}$ (খ) $\{0\}$ (গ) $\{7\}$ (ঘ) $\{6, 7\}$



উপরের ভেনচিত্রের আলোকে ২৫-২৭ নং প্রশ্নের উত্তর দাও :

২৫. $A \cup B$ এর মান কোনটি ?

- (ক) $\{2, 3, 4, 5, 6, 7\}$ (খ) $2, 3, 4, 6$
(গ) $\{3, 4, 5, 6\}$ (ঘ) $\{2, 3, 5, 7\}$

২৬. A' এর মান কোনটি ?

- (ক) $\{5, 6, 7\}$ (খ) $\{6, 7, 8\}$
(গ) $\{3, 4, 5\}$ (ঘ) $\{2, 3, 4\}$

২৭. $A \cap B$ এর কতটি উপসেট সংখ্যা কতটি ?

- (ক) ২টি (খ) ৪টি (গ) ৪টি (ঘ) ১৬টি

২৮. কোন পণ্ডিতবিদকে পরিসংখ্যানের ভিত্তি স্থাপনকারী হিসেবে বিবেচনা করা হয় ?

- (ক) নীকামোরাস (খ) অলিজাবের
(গ) আর্কিমিডিস (ঘ) কার্ল গিয়ার্ডেন

২৯. n সংখ্যক উপাদে n বিজোড় হলে, মধ্যক হবে কততম পদ ?

- (ক) $(n+1)$ তম পদ

- (খ) $\frac{n}{2}$ তম পদ

$$\frac{\frac{n}{2} \text{ তম পদ} + (\frac{n}{2} + 1) \text{ তম পদ}}{2}$$

- (ঘ) $\left(\frac{n+1}{2}\right)$ তম পদ

৩০. ২০, ৩০, ২৫, ২৮, ৩৬, ১৬, ২১ উপাত্তসমূহের মধ্যক কোনটি ?

- (ক) ২০ (খ) ২৪
(গ) ৩০ (ঘ) ৩৬

৩১. i. পরিসর = (সর্বোচ্চ সংখ্যা - সর্বনিম্ন সংখ্যা) + ১

ii. শ্রেণি সংখ্যা = $\frac{\text{পরিসর}}{\text{শ্রেণি ব্যাপ্তি}}$

iii. উপাত্তের চলকের সংখ্যা n বিজোড় হলে মধ্যক হবে

$$\left(\frac{n+1}{2}\right) \text{ তম পদ}$$

নিচের কোনটি সঠিক ?

- (ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

৩২. একটি বর্গের পরিসীমা ১২ সেমি এর কর্ণের দৈর্ঘ্য কত ?

- (ক) $2\sqrt{3}$ সেমি (খ) $3\sqrt{2}$ সেমি
(গ) $12\sqrt{3}$ সেমি (ঘ) ১২ সেমি

৩৩. ট্রাপিজিয়ামের ক্ষেত্রফল—

i. বিপরীত বাহু সমান ও সমান্তরাল ii. দুইটি বাহু সমান্তরাল

iii. ট্রাপিজিয়ামের ক্ষেত্রফল = $\frac{1}{2}$ (সমান্তরাল বাহুদ্বয়ের যোগফল)

উত্তর

নিচের কোনটি সঠিক ?

- (ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

৩৪.



চিত্রে $\triangle ABC$ এর $\angle B = 90^\circ$; $AB = BC$ হলে

- i. $\triangle ABD$ এবং $\triangle BDC$ এর সাধারণ বহু BD
ii. $\triangle ABD \cong \triangle BDC$

iii. $AB^2 + BC^2 = 2AC^2$

নিচের কোনটি সঠিক ?

- (ক) i ও ii (খ) i ও iii (গ) ii ও iii (ঘ) i, ii ও iii

৩৫.



চিত্রে $BF = EF = 2$ একক

উপরের তথ্য থেকে ৩৫-৩৭ নং প্রশ্নের উত্তর দাও :

৩৫. ABCD কি ধরনের চতুর্ভুজ ?

- (ক) আয়ত (খ) সামান্তরিক (গ) বর্গ (ঘ) রম্বস

৩৬. ABCD এর পরিসীমা কত ?

- (ক) ১৪ একক (খ) ২০ একক
(গ) ২৫ একক (ঘ) ৩০ একক

৩৭. ABCE এর ক্ষেত্রফল কত ?

- (ক) ৬ একক (খ) ১২ একক (গ) ১৪ একক (ঘ) ২৪ একক

৩৮.



AB এর দৈর্ঘ্য কত একক ?

- (ক) $\sqrt{5}$ (খ) 5 (গ) $5\sqrt{5}$ (ঘ) 25

৩৯.



চিত্র : সূত্র

চিত্রে $\angle x$ এর মান কত ?

- (ক) 180° (খ) 120° (গ) 90° (ঘ) 60°

৪০.



$\therefore \angle BPD$ এর মান কত ?

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Sabine Zange



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Algebraic and Geometric Methods in Discrete Mathematics Heather A. Harrington, Mohamed Omar, Matthew Wright, 2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11 2015 in San Antonio Texas The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics topology algebra geometry optimization and representation theory Papers not only present novel results but also survey the current state of knowledge of important topics in applied discrete mathematics Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences a new method for approximating the optimal solution of a sum of squares problem a survey of recent Helly type geometric theorems applications of representation theory to voting theory and game theory a study of fixed points of tensors and exponential random graph models from the perspective of algebraic statistics with applications to networks This volume was written for those trained in areas such as algebra topology geometry and combinatorics who are interested in tackling problems in fields such as biology the social sciences data analysis and optimization It may be useful not only for experts but also for students who wish to gain an applied or interdisciplinary perspective

Invitation to Nonlinear Algebra Mateusz Michałek, Bernd Sturmfels, 2021-03-22 Nonlinear algebra provides modern mathematical tools to address challenges arising in the sciences and engineering It is useful everywhere where polynomials appear in particular data and computational sciences statistics physics optimization The book offers an invitation to this broad and fast developing area It is not an extensive encyclopedia of known results but rather a first introduction to the subject allowing the reader to enter into more advanced topics It was designed as the next step after linear algebra and well before abstract algebraic geometry The book presents both classical topics like the Nullstellensatz and primary decomposition and more modern ones like tropical geometry and semidefinite programming The focus lies on interactions and applications Each of the thirteen chapters introduces fundamental concepts The book may be used for a one semester course and the over 200 exercises will help the readers to deepen their understanding of the subject

Graph Drawing and Network Visualization Daniel Archambault, Csaba D. Tóth, 2019-11-28 This book constitutes the refereed proceedings of the 27th International Symposium on Graph Drawing and Network Visualization GD 2019 held in Prague Czech Republic in September 2019 The 42 papers and 12 posters presented in this volume were carefully reviewed and selected from 113 submissions They were organized into the following topical sections Cartograms and Intersection Graphs Geometric Graph Theory Clustering Quality Metrics Arrangements A Low Number of Crossings Best Paper in Track 1 Morphing and Planarity Parameterized Complexity Collinearities Topological Graph Theory Best Paper in Track 2 Level Planarity Graph Drawing Contest Report and Poster Abstracts

Proceedings of the Regional Conference on Science, Technology and Social Sciences (RCSTSS 2016) Mohd

Yusri Mohamad Noor,Badli Esham Ahmad,Mohd Rozaidi Ismail,Hasnizawati Hashim,Mohd Amli Abdullah Baharum,2018-07-20 This book features papers addressing a broad range of topics including psychology religious studies natural heritage accounting business communication education and sustainable development It serves as a platform for disseminating research findings by academicians of local regional and global prominence and acts as a catalyst to inspire positive innovations in the development of the region It is also a significant point of reference for academicians and students This collection of selected social sciences papers is based on the theme Soaring Towards Research Excellence presented at the Regional Conference of Sciences Technology and Social Sciences RCSTSS 2016 organised bi annually by Universiti Teknologi MARA Cawangan Pahang Malaysia **Davenport-Zannier Polynomials and Dessins d'Enfants** Nikolai M. Adrianov,Fedor Pakovich,Alexander K. Zvonkin,2020-06-29 The French expression dessins d enfants means children s drawings This term was coined by the great French mathematician Alexandre Grothendieck in order to denominate a method of pictorial representation of some highly interesting classes of polynomials and rational functions The polynomials studied in this book take their origin in number theory The authors show how by drawing simple pictures one can prove some long standing conjectures and formulate new ones The theory presented here touches upon many different fields of mathematics The major part of the book is quite elementary and is easily accessible to an undergraduate student The less elementary parts such as Galois theory or group representations and their characters would need a more profound knowledge of mathematics The reader may either take the basic facts of these theories for granted or use our book as a motivation and a first approach to these subjects Philosophical Perceptions on Logic and Order Horne, Jeremy,2017-05-19 Strong reasoning skills are an important aspect to cultivate in life as they directly impact decision making on a daily basis By examining the different ways the world views logic and order new methods and techniques can be employed to help expand on this skill further in the future Philosophical Perceptions on Logic and Order is a pivotal scholarly resource that discusses the evolution of logical reasoning and future applications for these types of processes Highlighting relevant topics including logic patterns deductive logic and inductive logic this publication is an ideal reference source for academicians students and researchers that would like to expand their understanding of how society currently employs the use of logical reasoning techniques Combinatorial Algorithms Leszek Gąsieniec,Ralf Klasing,Tomasz Radzik,2020-05-28 This book constitutes the proceedings of the 31st International Workshop on Combinatorial Algorithms which was planned to take place in Bordeaux France during June 8 10 2020 Due to the COVID 19 pandemic the conference changed to a virtual format The 30 full papers included in this book were carefully reviewed and selected from 62 submissions They focus on algorithms design for the myriad of combinatorial problems that underlie computer applications in science engineering and business **Open Problems in Algebraic Combinatorics** Christine Berkesch,Benjamin Brubaker,Gregg Musiker,Pavlo Pylyavskyy,Victor Reiner,2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with

exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics

Arithmetic, Geometry, Cryptography and Coding Theory Stéphane Ballet, Gaetan Bisson, Irene Bouw, 2021-07-01 This volume contains the proceedings of the 17th International Conference on Arithmetic Geometry Cryptography and Coding Theory AGC2T 17 held from June 10 14 2019 at the Centre International de Rencontres Mathématiques in Marseille France The conference was dedicated to the memory of Gilles Lachaud one of the founding fathers of the AGC2T series Since the first meeting in 1987 the biennial AGC2T meetings have brought together the leading experts on arithmetic and algebraic geometry and the connections to coding theory cryptography and algorithmic complexity This volume highlights important new developments in the field

Zhang Time Discretization (ZTD) Formulas and Applications Yunong Zhang, Jinjin Guo, 2024-08-07 This book aims to solve the discrete implementation problems of continuous time neural network models while improving the performance of neural networks by using various Zhang Time Discretization ZTD formulas The authors summarize and present the systematic derivations and complete research of ZTD formulas from special 3S ZTD formulas to general NS ZTD formulas These finally lead to their proposed discrete time Zhang neural network DTZNN algorithms which are more efficient accurate and elegant This book will open the door to scientific and engineering applications of ZTD formulas and neural networks and will be a major inspiration for studies in neural network modeling numerical algorithm design prediction and robot manipulator control The book will benefit engineers senior undergraduates graduate students and researchers in the fields of neural networks computer mathematics computer science artificial intelligence numerical algorithms optimization robotics and simulation modeling

Mathematical Congress of the Americas Jimmy Petean, 2016-01-25 This volume contains the proceedings of the First Mathematical Congress of the Americas held from August 5 9 2013 in Guanajuato Mexico With the participation of close to 1 000 researchers from more than 40 countries the meeting set a benchmark for mathematics in the two continents The papers written by some of the plenary and invited speakers as well as winners of MCA awards cover new developments in classic topics such as Hopf fibrations minimal surfaces and Markov processes and provide recent insights on combinatorics and geometry isospectral spherical space forms homogenization on manifolds and Lagrangian cobordism as well as applications to physics and biology

Proceedings of 4th International Conference on Mathematical Modeling and Computational Science Souvik Pal, Álvaro

Rocha,2025-06-21 This book aims to capture the interest of researchers and professionals in information technology computer science and mathematics It covers fundamental and advanced concepts related to intelligent computing paradigms data sciences graph theory and mathematical modeling In high performance computing the need for intelligent adaptive computing mechanisms and the integration of mathematical modeling in computational algorithms is becoming increasingly significant Serving as a valuable resource for industry professionals this book also supports beginners in gaining insights into enhanced computing paradigms and mathematical concepts from foundational to advanced levels Our objective is to provide a platform for researchers engineers academicians and industry experts worldwide to share their findings on emerging trends The authors believe this book not only presents innovative ideas but also fosters engaging discussions and inspires new perspectives

Applications of Polynomial Systems David A. Cox,2020-03-02 Systems of polynomial equations can be used to model an astonishing variety of phenomena This book explores the geometry and algebra of such systems and includes numerous applications The book begins with elimination theory from Newton to the twenty first century and then discusses the interaction between algebraic geometry and numerical computations a subject now called numerical algebraic geometry The final three chapters discuss applications to geometric modeling rigidity theory and chemical reaction networks in detail Each chapter ends with a section written by a leading expert Examples in the book include oil wells HIV infection phylogenetic models four bar mechanisms border rank font design Stewart Gough platforms rigidity of edge graphs Gaussian graphical models geometric constraint systems and enzymatic cascades The reader will encounter geometric objects such as B zier patches Cayley Menger varieties and toric varieties and algebraic objects such as resultants Rees algebras approximation complexes matroids and toric ideals Two important subthemes that appear in multiple chapters are toric varieties and algebraic statistics The book also discusses the history of elimination theory including its near elimination in the middle of the twentieth century The main goal is to inspire the reader to learn about the topics covered in the book With this in mind the book has an extensive bibliography containing over 350 books and papers

Applications of Group Theory in Cryptography Delaram Kahrobaei,Ramón Flores,Marialaura Noce,Maggie E. Habeeb,Christopher Battarbee,2024-03-25 This book is intended as a comprehensive treatment of group based cryptography accessible to both mathematicians and computer scientists with emphasis on the most recent developments in the area To make it accessible to a broad range of readers the authors started with a treatment of elementary topics in group theory combinatorics and complexity theory as well as providing an overview of classical public key cryptography Then some algorithmic problems arising in group theory are presented and cryptosystems based on these problems and their respective cryptanalyses are described The book also provides an introduction to ideas in quantum cryptanalysis especially with respect to the goal of post quantum group based cryptography as a candidate for quantum resistant cryptography The final part of the book provides a description of various classes of groups and their suitability as platforms for group based cryptography The book is a

monograph addressed to graduate students and researchers in both mathematics and computer science *High-Pressure Fluid Phase Equilibria* Ulrich K Deiters, Thomas Kraska, 2023-12-01 High pressures play a more and more important role in modern technology Examples are the supercritical fluid extraction of medical drugs and dyes from biological material the handling of compressed or liquefied gases including natural gas or hydrogen the operation of modern thermal power plants or various technical processes for controlled particle formation *High Pressure Fluid Phase Equilibria* Second Edition enables understanding of the complicated phase behaviour that fluid or fluid mixtures liquids gases or supercritical phases can exhibit at elevated pressures The underlying thermodynamic equations are explained and robust algorithms for the computation of such equilibria including solid fluid equilibria are proposed Since the publication of the first edition of this book there have been many new developments for instance differential equation methods for the computation of phase equilibria accurate numerical differentiation high precision equations of state e g the GERG model Moreover more detail and explanation has been added on important topics that were only briefly examined in the original book to better assist the reader such as expansion processes and chemical reactions The book remains invaluable as a single resource for grasping the intricacies of fluid phase behaviour It enables readers to write or improve their own computer programs for the calculation of phase equilibria It will appeal to graduate students of chemical engineering and university research staff involved in chemical engineering of supercritical fluids or the physical chemistry of fluids the book can also serve as the basis of lectures or advanced students seminars Comprehensively presents the complex world of phase equilibria binary and ternary and the various methods for computing phase equilibria whilst carefully considering the relevant pressure and temperature ranges Introduces phase diagram classes how to recognize them and how to identify their characteristic features Presents rational nomenclature of binary fluid phase diagrams Includes problems and solutions for self testing exercises or seminars New to this Edition Presentation of the phase equilibria models is extended and expanded There are now more descriptions on more equations of state especially the PC-SAFT EoS Features new chapter on nonisothermal applications and chemically reactive systems and extensive updates and additions to all existing chapters **Essentials of Tropical Combinatorics** Michael Joswig, 2021-12-08 The goal of this book is to explain at the graduate student level connections between tropical geometry and optimization Building bridges between these two subject areas is fruitful in two ways Through tropical geometry optimization algorithms become applicable to questions in algebraic geometry Conversely looking at topics in optimization through the tropical geometry lens adds an additional layer of structure The author covers contemporary research topics that are relevant for applications such as phylogenetics neural networks combinatorial auctions game theory and computational complexity This self contained book grew out of several courses given at Technische Universität Berlin and elsewhere and the main prerequisite for the reader is a basic knowledge in polytope theory It contains a good number of exercises many examples beautiful figures as well as explicit tools for computations using textttt polymake

Women Spacefarers Umberto Cavallaro, 2017-03-02 This book tells the fascinating stories of the valiant women who broke down barriers to join the space program Beginning with the orbital flight of USSR cosmonaut Valentina Tereshkova in 1963 they became players in the greatest adventure of our time The author contextualizes their accomplishments in light of the political and cultural climate from the Cold War in the background to the changing status of women in society at large during the Seventies The book includes the biographies of and in some cases interviews with the sixty women who flew in space in the first half century of space history It reports their achievements and some little known details The result is a gallery of pioneering women who reached for the stars women who with exceptional skill hard work and dedication reached impressive careers as accomplished pilots researchers and engineers many are now in high level managerial positions both at NASA or in public and private organizations and all left a legacy of strength

Computer Aided Verification Shuvendu K. Lahiri, Chao Wang, 2020-07-15 The open access two volume set LNCS 12224 and 12225 constitutes the refereed proceedings of the 32st International Conference on Computer Aided Verification CAV 2020 held in Los Angeles CA USA in July 2020 The 43 full papers presented together with 18 tool papers and 4 case studies were carefully reviewed and selected from 240 submissions The papers were organized in the following topical sections Part I AI verification blockchain and Security Concurrency hardware verification and decision procedures and hybrid and dynamic systems Part II model checking software verification stochastic systems and synthesis The conference was held virtually due to the COVID 19 pandemic

Parallel Computing: On the Road to Exascale G.R. Joubert, H. Leather, M. Parsons, 2016-04-28 As predicted by Gordon E Moore in 1965 the performance of computer processors increased at an exponential rate Nevertheless the increases in computing speeds of single processor machines were eventually curtailed by physical constraints This led to the development of parallel computing and whilst progress has been made in this field the complexities of parallel algorithm design the deficiencies of the available software development tools and the complexity of scheduling tasks over thousands and even millions of processing nodes represent a major challenge to the construction and use of more powerful parallel systems This book presents the proceedings of the biennial International Conference on Parallel Computing ParCo2015 held in Edinburgh Scotland in September 2015 Topics covered include computer architecture and performance programming models and methods as well as applications The book also includes two invited talks and a number of mini symposia Exascale computing holds enormous promise in terms of increasing scientific knowledge acquisition and thus contributing to the future well being and prosperity of mankind A number of innovative approaches to the development and use of future high performance and high throughput systems are to be found in this book which will be of interest to all those whose work involves the handling and processing of large amounts of data

Lie Algebras and Related Topics Marina Avitabile, Jörg Feldvoss, Thomas Weigel, 2015-11-30 This volume contains the proceedings of the Workshop on Lie Algebras in honor of Helmut Strade's 70th Birthday held from May 22-24 2013 at the Università degli Studi di Milano Bicocca Milano Italy Lie algebras are at the core of

several areas of mathematics such as Lie groups algebraic groups quantum groups representation theory homogeneous spaces integrable systems and algebraic topology The first part of this volume combines research papers with survey papers by the invited speakers The second part consists of several collections of problems on modular Lie algebras their representations and the conjugacy of their nilpotent elements as well as the Koszulity of restricted Lie algebras and Lie properties of group algebras or restricted universal enveloping algebras

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