বিষয় কোড ঃ

1	0	9

সময়—৩ ঘণ্টা
পূর্ণমান—৬০ + ৮০ = ১০০

সৃজনশীল প্রশ্ন
মান—৬০

[প্রিইব্য ঃ—ডান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রতিটি বিভাগ থেকে কমপক্ষে একটি করে প্রশ্ন নিয়ে মোট ছয়টি প্রশ্নের উত্তর দাও।]

ক বিভাগ—পাটীগণিত

নম্বর

১। একটি আয়তাকার বাগানের দৈর্ঘ্য ৪০ মিটার এবং প্রস্থ ৩০ মিটার। বাগানের ভেতর চারিদিকে ৩ মিটার চওড়া একটি রাস্তা আছে। ২৫ সে.মি. দৈর্ঘ্য এবং ১২·৫ সে. মি. প্রস্থবিশিষ্ট ইট দিয়ে রাস্তাটি পাকা করা হলো।
- (ক) বাগানের ক্ষেত্রফল নির্ণয় কর। — ২
- (খ) রাস্তার ক্ষেত্রফল নির্ণয় কর। — ৪
- (গ) রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর। — ৪

২। বাবুল হোসেন ৮% ক্ষতিতে একটি ছাগল বিক্রয় করলেন। কিন্তু ছাগলটি ৮০০ টাকা বেশি মূল্যে বিক্রয় করলে তাঁর ৮% লাভ হত। পরবর্তীতে তিনি ছাগলটির ক্রয়মূল্যের সমপরিমাণ টাকা বার্ষিক ১০% মুনাফায় ৩ বছরের জন্য ব্যাংকে জমা রাখলেন।
- (ক) ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর। — ২
- (খ) ছাগলটির ক্রয়মূল্য নির্ণয় কর। — ৪
- (গ) উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে? — ৪

খ বিভাগ—বীজগণিত

৩। $U = \{x : x$ স্বাভাবিক সংখ্যা এবং $x < 8\}$;
$P = \{1, 3, 5\}$;
$Q = \{x : x$ স্বাভাবিক সংখ্যা এবং $1 < x \leq 7\}$ এবং
$R = \{2, 4, 6\}$.
- (ক) P^c নির্ণয় কর। — ২
- (খ) $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর। — ২
- (গ) প্রমাণ কর যে, $(Q \cup R)' = Q' \cap R'$. — ৪

৪। $3x + 2y = 12, 2x + 3y = 13$ দুটি সমীকরণ—
- (ক) $(4, 0)$ বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কি-না যাচাই কর। — ২
- (খ) অপনয়ন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর। — ৪
- (গ) লেখচিত্র থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর। — ৪

৫। $x + \dfrac{1}{x} = 5$ একটি বীজগাণিতিক সমীকরণ যেখানে $x > 0$.
- (ক) $3x + \dfrac{3}{x}$ এর মান নির্ণয় কর। — ২
- (খ) $x^4 + \dfrac{1}{x^4}$ এর মান নির্ণয় কর। — ৪
- (গ) প্রমাণ কর যে, $x^2 - \dfrac{1}{x^2} \neq x^3 + \dfrac{1}{x^3}$. — ৪

গ বিভাগ—জ্যামিতি

৬। $ABCD$ একটি আয়তক্ষেত্র যার $AB = 3$ সে. মি. উপর AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে।
- (ক) উদ্দীপকের তথ্যগুলো চিত্রের সাহায্যে প্রকাশ কর। — ২
- (খ) প্রমাণ কর যে, $AC = BD$ এবং $AO = CO, BO = DO$. — ৪
- (গ) AB কে একটি বাহুর দৈর্ঘ্য এবং $AC = 5$ সে. মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রম্বস অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক] — ৪

[পর পৃষ্ঠা প্রযোজ্য]

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Terry C. Jones

Jsc Math 2014:

   Arithmetic Geometry: Computation and Applications Yves Aubry,Everett W. Howe,Christophe Ritzenthaler,2019-01-11 For thirty years the biennial international conference AGC T Arithmetic Geometry Cryptography and Coding Theory has brought researchers to Marseille to build connections between arithmetic geometry and its applications originally highlighting coding theory but more recently including cryptography and other areas as well This volume contains the proceedings of the 16th international conference held from June 19 23 2017 The papers are original research articles covering a large range of topics including weight enumerators for codes function field analogs of the Brauer Siegel theorem the computation of cohomological invariants of curves the trace distributions of algebraic groups and applications of the computation of zeta functions of curves Despite the varied topics the papers share a common thread the beautiful interplay between abstract theory and explicit results   Teaching Mathematics Using Popular Culture Elana Reiser,2015-11-09 Mathematics teachers often struggle to motivate their students One way to cultivate and maintain student interest is for teachers to incorporate popular media into their methodology Organized on the subject strands of the Common Core this book explores math concepts featured in contemporary films and television shows and offers numerous examples high school math teachers can use to design lessons using pop culture references Outlines for lessons are provided along with background stories and historical references   **Intelligent Computer Mathematics** Cezary Kaliszyk,Edwin Brady,Andrea Kohlhase,Claudio Sacerdoti Coen,2019-07-02 This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Computer Mathematics CICM 2019 held in Prague Czech Republic in July 2019 The 19 full papers presented were carefully reviewed and selected from a total of 41 submissions The papers focus on digital and computational solutions which are becoming the prevalent means for the generation communication processing storage and curation of mathematical information Separate communities have developed to investigate and build computer based systems for computer algebra automated deduction and mathematical publishing as well as novel user interfaces While all of these systems excel in their own right their integration can lead to synergies offering significant added value   **Topological Data Analysis for Genomics and Evolution** Raul Rabadan,Andrew J. Blumberg,2019-12-19 An introduction to geometric and topological methods to analyze large scale biological data includes statistics and genomic applications   The Classification of Subfactors with Index at Most $5 \frac {1}{4}$ Narjess Afzaly,Scott Morrison,David Penneys,2023-04-07 View the abstract   **Recent Trends in Computational Engineering - CE2014** Miriam Mehl,Manfred Bischoff,Michael Schäfer,2015-10-12 This book presents selected papers from the 3rd International Workshop on Computational Engineering held in Stuttgart from October 6 to 10 2014 bringing together innovative contributions from related fields with computer science and mathematics as an important technical basis among others The workshop discussed the state of the art and the further evolution of numerical techniques for simulation in engineering and science We focus on current trends in numerical

simulation in science and engineering new requirements arising from rapidly increasing parallelism in computer architectures and novel mathematical approaches Accordingly the chapters of the book particularly focus on parallel algorithms and performance optimization coupled systems and complex applications and optimization   *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   Mathematical Aspects of Computer and Information Sciences Daniel Slamanig,Elias Tsigaridas,Zafeirakis Zafeirakopoulos,2020-03-18 This book constitutes the refereed proceedings of the 8th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2019 held in Gebze Turkey in November 2019 The 22 revised papers and 14 short papers presented were carefully reviewed and selected from 66 submissions The papers are organized in the following topical sections algorithms and foundation security and cryptography combinatorics codes designs and graphs data modeling and machine learning tools and software track

Mosby's Fundamentals of Therapeutic Massage - E-Book Sandy Fritz,2016-01-28 Success in massage therapy begins with a solid foundation in the fundamentals Mosby s Fundamentals of Therapeutic Massage 6th Edition helps you build the skills you need from assessing problems and planning treatment to mastering massage techniques and complementary bodywork Case studies bring concepts to life and guidelines to professionalism include topics such as ethics legal issues and best business practices How to videos on an Evolve companion website demonstrate manipulation techniques body mechanics positioning and draping and more If you want to prepare for certification exams and succeed in practice this resource from massage therapy expert Sandy Fritz is your text of choice Research Literacy and Evidence Based Practice chapter includes new research findings and explains how research is done and how to read and understand it Comprehensive coverage includes all of the fundamentals of therapeutic massage including massage techniques equipment

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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

Algebraic Geometry: Salt Lake City 2015 Richard Thomas,2018-06-01 This is Part 2 of a two volume set Since Oscar Zariski organized a meeting in 1954 there has been a major algebraic geometry meeting every decade Woods Hole 1964 Arcata 1974 Bowdoin 1985 Santa Cruz 1995 and Seattle 2005 The American Mathematical Society has supported these summer institutes for over 50 years Their proceedings volumes have been extremely influential summarizing the state of algebraic geometry at the time and pointing to future developments The most recent Summer Institute in Algebraic Geometry was held July 2015 at the University of Utah in Salt Lake City sponsored by the AMS with the collaboration of the Clay Mathematics Institute This volume includes surveys growing out of plenary lectures and seminar talks during the meeting Some present a broad overview of their topics while others develop a distinctive perspective on an emerging topic Topics span both complex algebraic geometry and arithmetic questions specifically analytic techniques enumerative geometry moduli theory derived categories birational geometry tropical geometry Diophantine questions geometric representation theory characteristic and adic tools etc The resulting articles will be important references in these areas for years to come *Mathematical Aspects of Computer and Information Sciences* Johannes Blömer,Ilias S. Kotsireas,Temur Kutsia,Dimitris E. Simos,2017-12-20 This book constitutes the refereed proceedings of the 7th International Conference on Mathematical Aspects of Computer and Information Sciences MACIS 2017 held in Vienna Austria in November 2017 The 28 revised papers and 8 short papers presented were carefully reviewed and selected from 67 submissions The papers are organized in the following topical sections foundation of algorithms in mathematics engineering and scientific computation combinatorics and codes in computer science data modeling and analysis and mathematical aspects of information security and cryptography **Applications of Computer Algebra** Ilias S. Kotsireas,Edgar Martínez-Moro,2017-07-26 The Applications of Computer Algebra ACA conference covers a wide range of topics from Coding Theory to Differential Algebra to Quantam Computing focusing on the interactions of these and other areas with the discipline of Computer Algebra This volume provides the latest developments in the field as well as its applications in various domains including communications modelling and theoretical physics The book will appeal to researchers and professors of computer algebra applied mathematics and computer science as well as to engineers and computer scientists engaged in research and development *Ordered Algebraic Structures and Related Topics* Fabrizio Broglia,2017 Contains the proceedings of the international conference Ordered Algebraic Structures and Related Topics held in October 2015 at CIRM Luminy Marseilles Papers cover topics in real analytic geometry real algebra and real algebraic geometry including complexity issues model theory of various

algebraic and differential structures Witt equivalence of fields and the moment problem **Fitting Smooth Functions to Data** Charles Fefferman,Arie Israel,2020-10-27 This book is an introductory text that charts the recent developments in the area of Whitney type extension problems and the mathematical aspects of interpolation of data It provides a detailed tour of a new and active area of mathematical research In each section the authors focus on a different key insight in the theory The book motivates the more technical aspects of the theory through a set of illustrative examples The results include the solution of Whitney s problem an efficient algorithm for a finite version and analogues for H lder and Sobolev spaces in place of Cm The target audience consists of graduate students and junior faculty in mathematics and computer science who are familiar with point set topology as well as measure and integration theory The book is based on lectures presented at the CBMS regional workshop held at the University of Texas at Austin in the summer of 2019 *Computational Topology in Image Context* Alexandra Bac,Jean-Luc Mari,2016-06-01 This book constitutes the proceedings of the 6th International Workshop on Computational Topology in Image Context CTIC 2016 held in Marseille France in June 2016 The 24 papers presented in this volume were carefully reviewed and selected from 35 submissions Additionally this volume contains 2 invited papers CTIC covers a wide range of topics such as topological invariants and their computation homology cohomology linking number fundamental groups algorithm optimization in discrete geometry transfer of mathematical tools parallel computation in multi dimensional volume context hierarchical approaches experimental evaluation of algorithms and heuristics combinatorial or multi resolution models discrete or computational topology geometric modeling guided by topological constraints computational topological dynamics and use of topological information in discrete geometry applications **Society 5.0** Alla G. Kravets,Alexander A. Bolshakov,Maxim V. Shcherbakov,2023-08-24 This book focuses on open issues of Society 5 0 a new paradigm of a society that balances a human centred approach and technologies based on cyber physical systems and artificial intelligence The book contains results of how intelligent or cyber solutions help to improve the quality of life in society despite new challenges This book includes five sections Section Society 5 0 Biomedicine and Healthcare present how cyber physical systems help in healthcare e g analysis of clinical data in pregnant women with hypertension breast cancer diagnostics healthy diet design and others In the chapter the problem of data analysis and optimization is considered The second Section Society 5 0 Human centric Cyber Solutions highlight new findings on constructing virtual reality simulators training of workers on the basis of equipment s digital twins development of human capital Society 5 0 Socio Economic Systems Modelling includes chapters concerning the application of quantum like mathematical models for the analysis of socio economic systems indicative planning models for agriculture approaches of assessing and monitoring competitiveness risks of regions A section Society 5 0 Industrial Cyber Solutions provides new results on cyber physical systems of Russian oil market railway joint diagnostics and information support for maintenance and repair of a machine building cyber physical system The last section Society 5 0 Cyber Solutions Security consider

interoperability issues of security the video conferencing and scaling networks This book is directed to researchers practitioners engineers software developers professors and students We do hope the book will be useful for them

Algebraic Curves and Their Applications Lubjana Beshaj,Tony Shaska,2019-02-26 This volume contains a collection of papers on algebraic curves and their applications While algebraic curves traditionally have provided a path toward modern algebraic geometry they also provide many applications in number theory computer security and cryptography coding theory differential equations and more Papers cover topics such as the rational torsion points of elliptic curves arithmetic statistics in the moduli space of curves combinatorial descriptions of semistable hyperelliptic curves over local fields heights on weighted projective spaces automorphism groups of curves hyperelliptic curves dessins d enfants applications to Painlev equations descent on real algebraic varieties quadratic residue codes based on hyperelliptic curves and Abelian varieties and cryptography This book will be a valuable resource for people interested in algebraic curves and their connections to other branches of mathematics **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 Math matiques 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

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