

সময়—৩ ঘণ্টা

পূর্ণমান—৬০ + ৪০ = ১০০

সৃজনশীল প্রশ্ন

মান—৬০

দ্রষ্টব্য :—জান পাশের সংখ্যা প্রশ্নের পূর্ণমান জ্ঞাপক। প্রতিটি বিভাগ থেকে কমপক্ষে একটি করে প্রশ্ন নিয়ে মোট ছয়টি প্রশ্নের উত্তর দাও।

ক বিভাগ—পাঠ্যগণিত

- | | নম্বর |
|---|-------------|
| ১। একটি অয়তাকার 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।
(খ) রাস্তার ক্ষেত্রফল নির্ণয় কর।
(গ) রাস্তাটি পাকাকরণে প্রয়োজনীয় ইটের সংখ্যা বের কর। | ২
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| 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 জন্যে ব্যাংকে জমা রাখলেন।
(ক) ৮% সরল মুনাফায় ৮০০ টাকার ৩ বছরের মুনাফা নির্ণয় কর।
(খ) ছাগলটির ক্রয়মূল্য নির্ণয় কর।
(গ) উক্ত টাকা ব্যাংকে জমা রাখলে সরল মুনাফা ও চক্রবৃদ্ধি মুনাফার পার্থক্য কত হবে? | ২
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খ বিভাগ—বীজগণিত

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| ৩। $U = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } x < 8\}$;
$P = \{1, 3, 5\}$;
$Q = \{x : x \text{ স্বাভাবিক সংখ্যা এবং } 1 < x \leq 7\}$ এবং
$R = \{2, 4, 6\}$.
(ক) P^c নির্ণয় কর।
(খ) $(P \cap Q) \cup (Q \cup R)$ নির্ণয় কর।
(গ) প্রমাণ কর যে, $(Q \cup R)^c = Q^c \cap R^c$. | ২
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| ৪। $3x + 2y = 12$, $2x + 3y = 13$ দুটি সমীকরণ—
(ক) $(4, 0)$ বিন্দুটি প্রথম সমীকরণকে সিদ্ধ করে কিনা যাচাই কর।
(খ) অপনয়ন পদ্ধতিতে সমীকরণদ্বয়ের সমাধান কর।
(গ) লেবজিথ থেকে সমীকরণদ্বয়ের সমাধান নির্ণয় কর। | ২
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| ৫। $x + \frac{1}{x} = 5$ একটি বীজগণিতিক সমীকরণ যেখানে $x > 0$.
(ক) $3x + \frac{3}{x}$ এর মান নির্ণয় কর।
(খ) $x^4 + \frac{1}{x^4}$ এর মান নির্ণয় কর।
(গ) প্রমাণ কর যে, $x^2 - \frac{1}{x^2} \neq x^3 + \frac{1}{x^3}$ | ২
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গ বিভাগ—জ্যামিতি

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| ৬। ABCD একটি অয়তক্ষেত্র যার $AB = 3$ সে. মি. উহার AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে।
(ক) উল্লীপকের তথ্যগুলো ডিহের সাহায্যে প্রকাশ কর।
(খ) প্রমাণ কর যে, $AC = BD$ এবং $AO = CO$, $BO = DO$.
(গ) AB কে একটি বাহুর দৈর্ঘ্য এবং AC = 5 সে. মি.-কে একটি কর্ণের দৈর্ঘ্য ধরে একটি রহস্য অঙ্কন কর।
[অঙ্কনের চিহ্ন ও বিবরণ আবশ্যিক] | ২
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[পর পৃষ্ঠা দ্রষ্টব্য]

বাকী পৃষ্ঠাগুলি নিচের লিঙ্কে ক্লিক করে ডাউনলোড করে পড়ুন।

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Terry C. Jones



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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

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 Bzner 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

Combinatorial, Computational, and Applied Algebraic Geometry Serkan Ho?ten, Diane Maclagan, Frank Sottile, 2025-10-01 This volume consists of surveys on topics to which Bernd Sturmfels has contributed over his mathematical career invariant theory Grbner bases toric ideals and varieties algebraic methods in discrete and convex optimization hypergeometric systems algebraic statistics likelihood geometry tropical geometry chemical reaction networks numerical methods in algebraic geometry sums of squares tropical geometry tensors and algebraic vision Each article gives a gentle introduction to the topic Many contributions summarize the state of the art in each subject The volume is perfect for anyone who wishes an entry point to any one of these diverse topics

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

Contemporary Computational Mathematics - A Celebration of the 80th Birthday of Ian Sloan Josef Dick, Frances Y. Kuo, Henryk Woźniakowski, 2018-05-23 This book is a tribute to Professor Ian Hugh Sloan on the occasion of his 80th birthday It consists of nearly 60 articles written by international leaders in a diverse range of areas in contemporary computational mathematics These papers highlight the impact and many achievements of Professor Sloan in his distinguished academic career The book also presents state of the art knowledge in many computational fields such as quasi Monte Carlo and Monte Carlo methods for multivariate integration multi level methods finite element methods uncertainty quantification spherical designs and integration on the sphere approximation and interpolation of multivariate functions oscillatory integrals and in general in information based complexity and tractability as well as in a range of other topics The book also tells the life story of the renowned mathematician family man colleague and friend who has been an inspiration to many of us The reader may especially enjoy the story from the perspective of his family his wife his daughter and son as well as grandchildren who share their views of Ian The clear message of the book is that Ian H Sloan has been a role model in science and life

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

Rising Stars in Human-Robot Interaction Bilge Mutlu, Ginevra Castellano, James Everett Young, Séverin Lemaignan, Adriana Tapus, 2022-08-11 Digital Transformation of Education in the Covid-19 Process and its Psychological Effects on Children Emrah Soykan, Ayhan Çakici, Mert Bastas, 2023-03-17 **Mathematics** ,2024

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