

LINEAR MATHEMATICS 1: ASSIGNMENT 1

Due: 30 September 2024

Time : 6 hours

Answer **ALL** questions and show all necessary working

A1. Given that the matrix A

$$A = \begin{bmatrix} 1 & 0 & 2a \\ 2 & a & 1 \\ -1 & 3 & 2 \end{bmatrix}$$

find two values of a for which A is singular.

[6]

A2. (a) Find real numbers x and y such that $3x + 2iy - ix + 5y = 7 + 5i$

[4]

(b) Let $\mathbf{A} = 3\vec{i} - 4\vec{j} + 5\vec{k}$ and $\mathbf{B} = 2\vec{i} - \vec{j} - 6\vec{k}$. Find

(i) the acute angle between $\mathbf{A}$ and $\mathbf{B}$

(ii) the orthogonal projection of $\mathbf{B}$ onto $\mathbf{A}$.

[5,4]

A3. A line passes through the points $P(-3, 3, -2)$ and $Q(2, -1, 4)$. Find

(a) the parametric equations.

[5]

(b) the symmetric equations.

[3]

A4. (a) Represent in polar form $\frac{i\sqrt{2}}{3 + 3i}$.

[7]

(b) Evaluate the determinant

$$\begin{bmatrix} 1 & 3 & 1 \\ 3 & 5 & -1 \\ 2 & -2 & 1 \end{bmatrix}$$

by reducing the matrix to row echelon form.

[6]

A5. Solve the following differential equations

(a) $x^2y' + x(x + 2)y = e^x$.

[5]

(b) $\frac{dy}{dx} = \frac{y}{x} + \frac{y^2}{x^2} + 1$.

[5]

Paper 2 June2013 Linear Maths

Linfan Mao



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Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015 *Selected Papers from IIKII 2019 conferences in Symmetry* Teen-Hang Meen, Charles Tijus, Jih-Fu Tu, 2020-12-15 The International Institute of Knowledge Innovation and Invention IIKII <http://www.iikii.org> promotes the exchange of innovations and inventions and establishes a communication platform for international innovations and research In 2019 IIKII cooperates with the IEEE Tainan Section Sensors Council to hold IEEE conferences such as IEEE ICIASE 2019 IEEE ECBIOS 2019 IEEE ICKII 2019 ICUSA GAME 2019 and IEEE ECICE 2019 This Special Issue entitled Selected Papers from IIKII 2019 conferences aims to showcase outstanding papers from IIKII 2019 conferences including symmetry in physics chemistry biology mathematics and computer science etc It selected 21 outstanding papers from 750 papers presented in IIKII 2019 conferences on the topic of symmetry The main goals of this Special Issue are to encourage scientists to publish their experimental and theoretical results in as much detail as possible and to discover new scientific knowledge relevant to the topic of symmetry **CTET Success Master Maths and Science Paper 2 for Class 6 to 8 for 2021 Exams** Arihant Experts, 2021-05-26 1 Success Master Study Guides focus in the preparation of CTET teaching Exam 2 This book deals with CTET Mathematics and Science Paper 2 Classes 6 8 3 Divided into 5 main Sections completely prepared on the latest exam pattern 4 Provides Previous years Solved Papers 2 Practice Sets and more than 3000 MCQs are given for thorough practice CTET provides you with an opportunity to make a mark as an educator while teaching in Central Government School Prepared as per National Curriculum Framework here s representing the updated edition of Success Master CTET Mathematics Science Paper II Class VI VIII that serves as a study guide for the candidates who are willing to appear for the exam this year The book provides focused study material dividing the entire syllabus into 5 majors providing the complete coverage With more than 3000 MCQs are provided for the quick revision of the concepts Chapterwise coverage of the previous Years questions along with the Trend Analysis help aspirants for better preparation Lastly Solved Paper 2021 2 Practice Sets are given leaving no stones untouched Preparation done from this book proves to be highly useful for CTET Paper 1 in achieving good rank in the exam TOC Solved Paper 2021 January Solved Paper 2019 December Solved Paper 2019 July Solved Paper 2018 December Solved Paper 2016 September Child Development and Pedagogy English Language and Pedagogy Hindi Bhasha evm Shiksha shastra Mathematics and Pedagogy Science and Pedagogy Practice Sets 1 2

Cambridge IGCSE® Mathematics Core and Extended Coursebook Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980

syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book

Sudden arrhythmic death: from basic science to clinical practice Gareth D. Matthews, 2014-10-02 With upwards of 4.5 million deaths worldwide each year and more than one tenth of these occurring in those with no previously documented heart disease sudden arrhythmic death (SAD) is both a major public health burden and a highly emotive issue for society at large Recent years have witnessed a marked expansion in our knowledge of the physiology underlying SAD both in the context of hereditary and acquired cardiac disorders Thanks largely to work in genetically modified animals the growth in our understanding of mechanisms underlying arrhythmia in the hereditary channelopathies has been particularly marked Our growing knowledge of the fundamental mechanisms underlying SAD has so far failed to spur substantial developments in clinical practice Despite a large body of work in both humans and animals it remains impossible to confidently identify those at high risk of SAD making pre-emptive therapy a challenge What is more with the thankful exception of the implantable cardioverter defibrillators and pharmacological agents in very specific situations there has been depressingly little progress in finding new and effective therapies This Research Topic aims to go some way towards bridging the gap between advances in basic science and the development and delivery of new therapies It brings together original research contributions and review articles from key opinion leaders in the field focusing on the direct clinical implications of the basic science research now and in the future

Graph Drawing Stephen Wismath, Alexander Wolff, 2013-12-02 This book constitutes the thoroughly refereed post conference proceedings of the 21st International Symposium on Graph Drawing GD 2013 held in Bordeaux France in September 2013 The 42 revised full papers presented together with 12 revised short papers 3 invited talks and 1 poster description were carefully reviewed and selected from 110 submissions The papers are organized in topical sections on upward drawings planarity beyond planarity geometric representations 3D et al universality practical graph drawing subgraphs crossings geometric graphs and geographic networks angular restrictions grids curves and routes The book also contains a short description of the graph drawing contest

Rock Mechanics and Engineering Volume 3 Xia-Ting Feng, 2017-04-21 Analysis Modeling Back Analysis Risk Analysis Design and Stability Analysis Overviews Design and Stability Analysis Coupling Process Analysis Design and Stability Analysis Blast Analysis and Design Rock Slope Stability Analysis and Design Analysis and Design of Tunnels Caverns and Stopes The five volume set Comprehensive Rock Engineering which was published in 1993 has had an important influence on the development of rock mechanics and rock engineering Significant and extensive advances and achievements in these fields over the last 20 years now justify the publishing of a comparable new compilation Rock Mechanics and

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Encyclopedia of Mathematical Geosciences B. S. Daya Sagar, Qiuming Cheng, Jennifer McKinley, Frits Agterberg, 2023-07-13 The Encyclopedia of Mathematical Geosciences is a complete and authoritative reference work It provides concise explanation on each term that is related to Mathematical Geosciences Over 300 international scientists each expert in their specialties have written around 350 separate articles on different topics of mathematical geosciences including contributions on Artificial Intelligence Big Data Compositional Data Analysis Geomathematics Geostatistics Geographical Information Science Mathematical Morphology Mathematical Petrology Multifractals Multiple Point Statistics Spatial Data Science Spatial Statistics and Stochastic Process Modeling Each topic incorporates cross referencing to related articles and also has its own reference list to lead the reader to essential articles within the published literature The entries are arranged alphabetically for easy access and the subject and author indices are comprehensive and extensive

Mathematical Combinatorics, vol. I, 2014 Linfan Mao , Papers on Topological Model for Ecologically Industrial Systems Bounds for the Harmonious Coloring of Myceilskians Upper Singed Domination Number of Graphs Existence Results of Unique Fixed Point in 2 Banach Spaces Some Results in Fuzzy and Anti Fuzzy Group Theory and other topics Contributors Linfan Mao M Kamal Kumar B O Onasanya S A Ilori Buddhadev Pal Arindam Bhattacharyya Girish V R P Usha H B Walikar and others

International Journal of Mathematical Combinatorics, Volume 1, 2014 Linfan Mao, The mathematical

combinatorics is a subject that applying combinatorial notion to all mathematics and all sciences for understanding the reality of things in the universe The International J Mathematical Combinatorics is a fully refereed international journal sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly which publishes original research papers and survey articles in all aspects of mathematical combinatorics Smarandache multi spaces Smarandache geometries non Euclidean geometry topology and their applications to other sciences

Mathematical and Statistical Methods in Food Science and Technology Daniel Granato,Gastón Ares,2014-03-03 Mathematical and Statistical Approaches in Food Science and Technology offers an accessible guide to applying statistical and mathematical technologies in the food science field whilst also addressing the theoretical foundations Using clear examples and case studies by way of practical illustration the book is more than just a theoretical guide for non statisticians and may therefore be used by scientists students and food industry professionals at different levels and with varying degrees of statistical skill

Integral Transforms and Operational Calculus H. M. Srivastava,2019-11-20 Researches and investigations involving the theory and applications of integral transforms and operational calculus are remarkably wide spread in many diverse areas of the mathematical physical chemical engineering and statistical sciences This Special Issue contains a total of 36 carefully selected and peer reviewed articles which are authored by established researchers from many countries Included in this Special Issue are review expository and original research articles dealing with the recent advances on the topics of integral transforms and operational calculus as well as their multidisciplinary applications

Operator Theory, Analysis and the State Space Approach Harm Bart,Sanne ter Horst,André C.M. Ran,Hugo J. Woerdeman,2018-12-30 This volume is dedicated to Rien Kaashoek on the occasion of his 80th birthday and celebrates his many contributions to the field of operator theory during more than fifty years In the first part of the volume biographical information and personal accounts on the life of Rien Kaashoek are presented Eighteen research papers by friends and colleagues of Rien Kaashoek are included in the second part Contributions by J Agler Z A Lykova N J Young J A Ball G J Groenewald S ter Horst H Bart T Ehrhardt B Silbermann J M Bogoya S M Grudsky I S Malysheva A B ttcher E Wegert Z Zhou Y Eidelman I Haimovici A E Frazho A C M Ran B Fritzsche B Kirstein C Madler J J Jaftha D B Janse van Rensburg P Junghanns R Kaiser J Nemcova M Petreczky J H van Schuppen L Plevnik P Semrl A Sakhnovich F O Speck S Sremac H J Woerdeman H Wolkowicz and N Vasilevski

Multimedia Technology and Enhanced Learning Weina Fu,Yuan Xu,Shui-Hua Wang,Yudong Zhang,2021-07-21 This two volume book constitutes the refereed proceedings of the 3rd International Conference on Multimedia Technology and Enhanced Learning ICMTEL 2021 held in April 2021 Due to the COVID 19 pandemic the conference was held virtually The 97 revised full papers have been selected from 208 submissions They describe new learning technologies which range from smart school smart class and smart learning at home and which have been developed from new technologies such as machine learning multimedia and Internet of Things

A Chronicle of Permutation Statistical Methods Kenneth J. Berry,Janis E.

Johnston,Paul W. Mielke Jr.,2014-04-11 The focus of this book is on the birth and historical development of permutation statistical methods from the early 1920s to the near present Beginning with the seminal contributions of R A Fisher E J G Pitman and others in the 1920s and 1930s permutation statistical methods were initially introduced to validate the assumptions of classical statistical methods Permutation methods have advantages over classical methods in that they are optimal for small data sets and non random samples are data dependent and are free of distributional assumptions Permutation probability values may be exact or estimated via moment or resampling approximation procedures Because permutation methods are inherently computationally intensive the evolution of computers and computing technology that made modern permutation methods possible accompanies the historical narrative Permutation analogs of many well known statistical tests are presented in a historical context including multiple correlation and regression analysis of variance contingency table analysis and measures of association and agreement A non mathematical approach makes the text accessible to readers of all levels *Numerical Computations: Theory and Algorithms* Yaroslav D. Sergeyev,Dmitri E.

Kvasov,2020-02-13 The two volume set LNCS 11973 and 11974 constitute revised selected papers from the Third International Conference on Numerical Computations Theory and Algorithms NUMTA 2019 held in Crotone Italy in June 2019 This volume LNCS 11974 consists of 19 full and 32 short papers chosen among regular papers presented at the the Conference including also the paper of the winner Lorenzo Fiaschi Pisa Italy of The Springer Young Researcher Prize for the best NUMTA 2019 presentation made by a young scientist The papers in part II explore the advanced research developments in such interconnected fields as local and global optimization machine learning approximation and differential equations A special focus is given to advanced ideas related to methods and applications using emerging computational paradigms

How the Brain Learns Mathematics David A. Sousa,2014-11-13 To reach all your math students use your brain and theirs too This updated bestseller takes readers to the next level with new brain friendly strategies backed by the latest research and even more ways to seamlessly incorporate what you learn about your students developing minds into your math classroom Discover the cognitive mechanisms for learning math explore factors that contribute to learning difficulties and follow a four step teaching model that relates classroom experience to real world applications Features include New strategies for motivating adolescents Integration of the arts into mathematics instruction New information on how technology affects attention and memory Expanded sections on number sense and ELL instruction More than 160 new references **Ships and Offshore Structures XIX** Carlos Guedes Soares,Y. Garbatov,2015-09-03 This three volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais Portugal on 7th to 10th September 2015 The International Ship and Offshore Structures Congress ISSC is a forum for the exchange of information by experts undertaking and applying marine structural research The aim of

Neutrosophic Sets and Systems, Vol. 29, 2019 Florentin Smarandache,Mohamed Abdel-Basset, Neutrosophic Sets and Systems has been created

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