GRADE 11 MATHEMATICS

NOVEMBER EXAMINATION PAPER 2

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 43° + \cos 47°$ (1)

1.1.2 $\tan^2 59°$ (1)

1.1.3 $\cot 33° \times \csc 15°$ (1)

1.2 If $A = 24.3°$ and $B = 22.2°$, calculate the following to two decimal places:

1.2.1 $\sin(A + B)$ (2)

1.2.2 $\sec\left(\frac{A}{2}\right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30° + \cos 60°$ (3)

1.3.2 $\tan 45° + \cos 45°$ (3)

1.3.3 $\cos 90° + \sin 90°$ (3)

[15]

QUESTION 2

Without the use of a calculator, answer the following questions:

2.1 Given $\cos\theta = -\frac{5}{7}$ and $0° \leq \theta \leq 180°$
Use a diagram to determine the values of:

2.1.1 $\tan(180° + \theta)$ (3)

2.1.2 $3\sin(\theta - 90°)$ (2)

2.2 Simplify the following expression $\dfrac{\sin(-240°)}{\cos(300°)} + \dfrac{\cos(\sin+90°)}{\sin(360°+\theta)}$ (5)

2.3 Proof that: $\tan\theta \sqrt{\dfrac{1}{\sin^2\theta} - 1} = 1$ (4)

2.4 Determine the general solution for: $2\sin^2\theta + 1 + \sin\theta$ (6)

[20]

QUESTION 3

3.1 Sketch on the same set of axes the graphs for:

$f(x) = -2\cos x$ and $g(x) = \sin 2x$, for the interval $-90° \leq x \leq 180°$.

Show the coordinates of the turning points and all axis intercepts. (5)

3.2 Study the following sketch and determine the value of $\cos\theta - \cos\beta$, without the use of a calculator:

(5)

[10]

QUESTION 4

In the diagram below, the angle between line AB and the x-axis is β. The angle between line CD and the x-axis is β. A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B is $(\sqrt{7}, z)$.

The intercept point E, of lines AB and CD lies on the y-axis. $A\hat{E}D = 63.69°$

The equation of the line CD is given as: $3x + 2y = 6$

4.1 Determine the coordinates of E. (2)

4.2 Calculate the numerical value of α. (2)

4.3 Calculate the numerical value of β. (2)

November 2013 Paper 4 Math

Florentin Smarandache,Mumtaz Ali

November 2013 Paper 4 Math:

   Imagine Math 3 Michele Emmer,2015-03-04 Imagine mathematics imagine with the help of mathematics imagine new worlds new geometries new forms This volume in the series Imagine Math casts light on what is new and interesting in the relationships between mathematics imagination and culture The book opens by examining the connections between modern and contemporary art and mathematics including Linda D Henderson s contribution Several further papers are devoted to mathematical models and their influence on modern and contemporary art including the work of Henry Moore and Hiroshi Sugimoto Among the many other interesting contributions are an homage to Beno t Mandelbrot with reference to the exhibition held in New York in 2013 and the thoughts of Jean Pierre Bourguignon on the art and math exhibition at the Fondation Cartier in Paris An interesting part is dedicated to the connections between math computer science and theatre with the papers by C Bardainne and A Mondot The topics are treated in a way that is rigorous but captivating detailed but very evocative This is an all embracing look at the world of mathematics and culture   *Effective Math Instruction* Jared Dupree,2016-02-01 This easy to use classroom resource provides a series of lessons templates and exemplars for practical classroom application and will help teachers understand the content standards and the mathematical practice standards in order to develop meaningful mathematics lessons This book primarily focuses on teachers procedural knowledge of standards implementation as they apply the information and resources presented in this book Mathematical rigor in the classroom for students includes lessons that target conceptual knowledge procedural knowledge factual knowledge meta cognitive knowledge and the application of this knowledge in context It also includes opportunities for teachers to develop all three dimensions of rigor as it applies to the Common Core   Collected Papers. Volume XII Florentin Smarandache,2022-08-01 This twelfth volume of Collected Papers includes 86 papers comprising 976 pages on Neutrosophics Theory and Applications published between 2013 2021 in the international journal and book series Neutrosophic Sets and Systems by the author alone or in collaboration with the following 112 co authors alphabetically ordered from 21 countries Abdel Nasser H Zaied Muhammad Akram Bobin Albert S A Alblowi S Anitha Guennoun Asmae Assia Bakali Ayman M Manie Abdul Sami Awan Azeddine Elhassouny Erick Gonz lez Caballero D Dafik Mithun Datta Arindam Dey Mamouni Dhar Christopher Dyer Nur Ain Ebas Mohamed Eisa Ahmed K Essa Faruk Karaaslan Jo o Alcione Sganderla Figueiredo Jorge Fernando Goyes Garc a N Ramila Gandhi Sudipta Gayen Gustavo Alvarez G mez Sharon Dinarza lvarez G mez Haitham A El Ghareeb Hamiden Abd El Wahed Khalifa Masooma Raza Hashmi Ibrahim M Hezam German Acurio Hidalgo Le Hoang Son R Jahir Hussain S Satham Hussain Ali Hussein Mahmood Al Obaidi Hays Hatem Imran Nabeela Ishfaq Saeid Jafari R Jansi V Jeyanthi M Jeyaraman Sripati Jha Jun Ye W B Vasantha Kandasamy Abdullah Karg n J Kavikumar Kawther Fawzi Hamza Alhasan Huda E Khalid Neha Andalleb Khalid Mohsin Khalid Madad Khan D Koley Valeri Kroumov Manoranjan Kumar Singh Pavan Kumar Prem Kumar Singh Ranjan Kumar Malayalan Lathamaheswari A N Mangayarkkarasi Carlos Rosero Mart nez Marvelio Alfaro Matos

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Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc **Quantitative Assessment and Validation of Network Inference Methods in Bioinformatics** Benjamin Haibe-Kains,Frank Emmert-Streib,2015-04-14 Scientists today have access to an unprecedented arsenal of high tech tools that can be used to thoroughly characterize biological systems of interest High throughput omics technologies enable to generate enormous quantities of data at the DNA RNA epigenetic and proteomic levels One of the major challenges of the post genomic era is to extract functional information by integrating such heterogeneous high throughput genomic data This is not a trivial task as we are increasingly coming to understand that it is not individual genes but rather biological pathways and networks that drive an organism s response to environmental factors and the development of its particular phenotype In order to fully understand the way in which these networks interact or fail to do so in specific states disease for instance we must learn both the structure of the underlying networks and the rules that govern their behavior In recent years there has been an increasing interest in methods that aim to infer biological networks These methods enable the opportunity for better understanding the interactions between genomic features and the overall structure and behavior of the underlying networks So far such network models have been mainly used to identify and validate new interactions between genes of interest But ultimately one could use these networks to predict large scale effects of perturbations such as treatment by multiple targeted drugs However currently we are still at an early stage of comprehending methods and approaches providing a robust statistical framework to quantitatively assess the quality of network inference and its predictive potential The scope of this Research Topic in Bioinformatics and Computational Biology aims at addressing these issues by investigating the various complementary approaches to quantify the quality of network models These validation techniques could focus on assessing quality of specific interactions global and local structures and predictive ability of network models These methods could rely exclusively on in silico evaluation procedures or they could be coupled with novel experimental designs to generate the biological data necessary to properly validate inferred networks *Differential Geometry, Algebra, and Analysis* Mohammad Hasan Shahid,Mohammad Ashraf,Falleh Al-Solamy,Yasunori Kimura,Gabriel Eduard Vilcu,2020-09-04 This book is a collection of selected research papers some of which were presented at the International Conference on Differential Geometry Algebra and Analysis ICDGAA 2016 held at the Department of Mathematics Jamia Millia Islamia New Delhi from 15 17 November 2016 It covers a wide range of topics geometry of submanifolds geometry of statistical submanifolds ring theory module theory optimization theory and approximation theory which exhibit new ideas and methodologies for current research in differential geometry algebra and analysis Providing new results with rigorous proofs this book is therefore of much interest to readers who wish to learn new techniques in these areas of mathematics *On the Steady Motion of a Coupled System Solid-Liquid* Josef

Bemelmans,Giovanni Paolo Galdi,Mads Kyed,2013-10-23 We study the unconstrained free motion of an elastic solid B in a Navier Stokes liquid L occupying the whole space outside B under the assumption that a constant body force b is acting on B More specifically we are interested in the steady motion of the coupled system B L which means that there exists a frame with respect to which the relevant governing equations possess a time independent solution We prove the existence of such a frame provided some smallness restrictions are imposed on the physical parameters and the reference configuration of B satisfies suitable geometric properties   Parallel Processing and Applied Mathematics Roman Wyrzykowski,Jack Dongarra,Konrad Karczewski,Jerzy Waśniewski,2014-05-07 This two volume set LNCS 8384 and 8385 constitutes the refereed proceedings of the 10th International Conference of Parallel Processing and Applied Mathematics PPAM 2013 held in Warsaw Poland in September 2013 The 143 revised full papers presented in both volumes were carefully reviewed and selected from numerous submissions The papers cover important fields of parallel distributed cloud computing and applied mathematics such as numerical algorithms and parallel scientific computing parallel non numerical algorithms tools and environments for parallel distributed cloud computing applications of parallel computing applied mathematics evolutionary computing and metaheuristics   Neutrosophic Sets and Systems, Vol. III Florentin Smarandache,Mumtaz Ali, This volume is a collection of ten papers written by different authors and co authors listed in the order of the papers F Yuhua A A Salama F Smarandache S A Alblowi M Ali M Shabir M Naz A A A Agboola S A Akinleye M Dhar S Broumi P Biswas S Pramanik B C Giri H A El Ghareeb A M Maine V Kandasamy P Sekar and J Vidhyalakshmi In first paper the author proposed Expanding Newton Mechanics with Neutrosophy and Quad stage Method New Newton Mechanics Taking Law of Conservation of Energy as Unique Source Law The Characteristic Function of a Neutrosophic Set is proposed in the second paper Neutrosophic Left Almost Semigroup is studied in third paper In fourth paper Neutrosophic Hypercompositional Structures defined by Binary Relations are introduced Similarly in fifth paper A Note on Square Neutrosophic Fuzzy Matrices are discussed In paper six A New Methodology for Neutrosophic Multi Attribute Decision Making with Unknown Weight Information is presented by the authors Introduction to Develop Some Software Programs for dealing with Neutrosophic Sets is given in seventh paper Paper eight is about to Soft Neutrosophic Ring and Soft Neutrosophic Field In the next paper Rough Neutrosophic Sets are discussed The authors introduced new type of Fuzzy Relational Equations and Neutrosophic Relational Equations To Analyze Customer Preference to street shops in the last paper   **Informatics in Schools: Focus on Learning Programming** Valentina Dagienė,Arto Hellas,2017-11-22 This book constitutes the refereed proceedings of the 10th International Conference on Informatics in Schools Situation Evolution and Perspectives ISSEP 2017 held in Helsinki Finland in November 2017 The 18 full papers presented together with 1 invited talk were carefully reviewed and selected from 41 submissions ISSEP presents this year a broad range of themes ranging from making informatics accessible to visually impaired students and computational thinking to context and country specific challenges as well as teacher

development and training   Bringing the Common Core Math Standards to Life Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts   **Harmonic Analysis and Applications** Carlos E. Kenig,2020-12-14 The origins of the harmonic analysis go back to an ingenious idea of Fourier that any reasonable function can be represented as an infinite linear combination of sines and cosines Today s harmonic analysis incorporates the elements of geometric measure theory number theory probability and has countless applications from data analysis to image recognition and from the study of sound and vibrations to the cutting edge of contemporary physics The present volume is based on lectures presented at the summer school on Harmonic Analysis These notes give fresh concise and high level introductions to recent developments in the field often with new arguments not found elsewhere The volume will be of use both to graduate students seeking to enter the field and to senior researchers wishing to keep up with current developments   Information-based methods for neuroimaging: analyzing structure, function and dynamics Jesus M. Cortés,Daniele Marinazzo,Miguel Angel Muñoz,2015-05-07 The aim of this Research Topic is to discuss the state of the art on the use of Information based methods in the analysis of neuroimaging data Information based methods typically built as extensions of the Shannon Entropy are at the basis of model free approaches which being based on probability distributions rather than on specific expectations can account for all possible non linearities present in the data in a model independent fashion Mutual Information like methods can also be applied on interacting dynamical variables described by time series thus addressing the uncertainty reduction or information in one variable by conditioning on another set of variables In the last years different Information based methods have been shown to be flexible and powerful tools to analyze neuroimaging data with a wide range of different methodologies including formulations based on bivariate vs multivariate representations frequency vs time domains etc Apart from methodological issues the information bit as a common unit represents a convenient way to open the road for comparison and integration between different measurements of neuroimaging data in three complementary contexts Structural Connectivity Dynamical Functional and Effective Connectivity and Modelling of brain activity Applications are ubiquitous starting from resting state in healthy subjects to modulations of consciousness and other aspects of

pathophysiology Mutual Information based methods have provided new insights about common principles in brain organization showing the existence of an active default network when the brain is at rest It is not clear however how this default network is generated the different modules are intra interacting or disappearing in the presence of stimulation Some of these open questions at the functional level might find their mechanisms on their structural correlates A key question is the link between structure and function and the use of structural priors for the understanding of the functional connectivity measures As effective connectivity is concerned recently a common framework has been proposed for Transfer Entropy and Granger Causality a well established methodology originally based on autoregressive models This framework can open the way to new theories and applications This Research Topic brings together contributions from researchers from different backgrounds which are either developing new approaches or applying existing methodologies to new data and we hope it will set the basis for discussing the development and validation of new Information based methodologies for the understanding of brain structure function and dynamics **Mathematics and Transition to School** Bob Perry,Amy MacDonald,Ann Gervasoni,2015-01-09 This edited book brings together for the first time an international collection of work focused on two important aspects of any young child s life learning mathematics and starting primary or elementary school The chapters take a variety of perspectives and integrate these two components in sometimes explicit and sometimes more subtle ways The key issues and themes explored in this book are the mathematical and other strengths that all participants in the transition to school bring to this period of a child s life the opportunities provided by transition to school for young children s mathematics learning the importance of partnerships among adults and among adults and children for effective school transitions and mathematics learning and teaching the critical impact of expectations on their mathematics learning as children start school the importance of providing children with meaningful challenging and relevant mathematical experiences throughout transition to school the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers the importance for the aspirations of children families communities educators and educational organisations to be recognised as legitimate and key determinants of actions experiences and successes in both transition to school and mathematics learning and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school In each chapter authors reflect on their work in the area of mathematics and transition to school place that work within the overall context of research in these fields predict the trajectory of this work in the future and consider the implications of the work both theoretically and practically *Isolated Involutions in Finite Groups* Rebecca Waldecker,2013-10-23 This text provides a new proof of Glauberman s Z Theorem under the additional hypothesis that the simple groups involved in the centraliser of an isolated involution are known simple groups *Unprecedented* David Ray Griffin,2015-01-04 This book combines 1 the most extensive treatment of the causes and phenomena of climate change in combination with 2 an extensive treatment of social

obstacles and challenges fossil fuel funded denialism media failure political failure and moral religious and economic challenges 3 the most extensive treatment of the needed transition from fossil fuel energy to clean energy and 4 the most extensive treatment of mobilization It provides the most complete most up to date treatment of the various kinds of clean energy and how they could combine to provide 70% clean energy by 2035 and 100% before 2050 both U S and worldwide

Combinatorial Optimization Jon Lee,Giovanni Rinaldi,A. Ridha Mahjoub,2018-07-17 This book constitutes the thoroughly refereed post conference proceedings of the 5th International Symposium on Combinatorial Optimization ISCO 2018 held in Marrakesh Marocco in April 2018 The 35 revised full papers presented in this book were carefully reviewed and selected from 75 submissions The symposium aims to bring together researchers from all the communities related to combinatorial optimization including algorithms and complexity mathematical programming and operations research **Advances in Applied Mathematics** Ali R. Ansari,2014-08-04 This volume contains contributions from the Gulf International Conference in Applied Mathematics held at the Gulf University for Science Technology The proceedings reflects the three major themes of the conference The first of these was mathematical biology including a keynote address by Professor Philip Maini The second theme was computational science numerical analysis including a keynote address by Professor Grigorii Shishkin The conference also addressed more general applications topics with papers in business applications fluid mechanics optimization scheduling problems and engineering applications as well as a keynote by Professor Ali Nayfeh

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