

**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2**

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 43^\circ + \cos 47^\circ$ (1)

1.1.2 $\tan^2 50^\circ$ (1)

1.1.3 $\cot 33^\circ + \operatorname{cosec} 15^\circ$ (1)

1.2 If $A = 34,3^\circ$ and $B = 22,2^\circ$, 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 $\sin 30^\circ + \cos 60^\circ$ (1)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (1)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (1)

[12]

QUESTION 2

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

2.1 Given $\cos \theta = -\frac{1}{5}$ and $0^\circ \leq \theta \leq 180^\circ$
Use a diagram to determine the values of:

2.1.1 $\tan(180^\circ + \theta)$ (1)

2.1.2 $3\sin(\theta - 90^\circ)$ (2)

2.2 Simplify the following expression: $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(260^\circ + 40^\circ)}$ (5)

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

2.4 Determine the general solution for: $3\sin^2 \theta + 1 = \sin \theta$ (6)

[28]

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 $-90^\circ \leq x \leq 180^\circ$.

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

3.2 Study the following sketch and determine the value of $\cos \theta - \cos \phi$, 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 θ . A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(\sqrt{3}, 2)$.

The intercept point E, of lines AB and CD lies on the y-axis. $\angle EDC = 63,69^\circ$

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)

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Benjamin Haibe-Kains, Frank Emmert-Streib



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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

Neutrosophic Sets and Systems, Vol. V Florentin Smarandache, Mumtaz Ali, This book is a collection of nine papers contributed by different authors and co authors listed in the order of the papers A A Salama O M Khaled K M Mahfouz M Ali F Smarandache M Shabir L Vladareanu S Broumi K Mondal S Pramanik I Arockiarani I R Sumathi M Eisa and I Deli In first paper the authors studied Neutrosophic Correlation and Simple Linear Regression The Generalization of Neutrosophic Rings and Neutrosophic Fields is proposed in the second paper Cosine Similarity Measure of Interval Valued Neutrosophic Sets is studied in third paper In fourth paper A Study on Problems of Hijras in West Bengal Based on Neutrosophic Cognitive Maps is introduced Similarly in fifth paper Neutrosophic Crisp Set Theory is discussed In paper six Interval Valued Fuzzy Neutrosophic Soft Structure Spaces are presented by the authors Soft Neutrosophic Bi LA Semigroup and Soft Neutrosophic N LA Semigroup is given in seventh paper Introduction to Image Processing via Neutrosophic Technique is given in paper eight In the last paper Neutrosophic Soft Multi Set Theory and Its Decision Making is presented by the authors

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 Gonzalez 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 Garcia N Ramila Gandhi Sudipta Gayen Gustavo Alvarez Gomez Sharon Dinarza Alvarez Gomez 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

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Smarandache, K. Mondal, S. Praminik, M. Eisa, M. Ali, 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 **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 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

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