

**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: $\frac{\sin (-230^\circ)}{\cos (240^\circ)} + \frac{\cos (90^\circ)}{\sin (160^\circ + \pi)}$ (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)

November 2013 Mathematics Memo Paper2

Florentin Smarandache, Mumtaz Ali



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Neutrosophic Sets and Systems, vol. 5/2014 A. A. Salama, O. M. Khaled, K. M.

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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

Reframing Economics Roger A McCain,2014-03-28 The objectives of this book are twofold Firstly it proposes that economics should be defined as a study of imperfect cooperation Secondly it elucidates the continuities that extend from classical political economy through the neoclassical Keynesia

Topics in Domination in Graphs Teresa W. Haynes,Stephen T. Hedetniemi,Michael A. Henning,2020-10-19 This volume comprises 16 contributions that present advanced topics in graph domination featuring open problems modern techniques and recent results The focus is on primary dominating sets such as paired domination connected domination restrained domination dominating functions Roman domination and power domination Additionally surveys include known results with a sample of proof techniques for each parameter Of extra benefit to the reader the first chapter includes a glossary of commonly used terms the second chapter provides an overview of models of domination from which the parameters are defined The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments in the field and proof techniques used

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Formality of the Little $\mathbb{A}_1$ -disks Operad Pascal Lambrechts, Ismar Volić,2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in $\mathbb{C}^n$ and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of

the formality for the inclusion of the little disks operad in the little disks operad when **Multivariate, Multilinear and Mixed Linear Models** Katarzyna Filipiak, Augustyn Markiewicz, Dietrich von Rosen, 2021-10-01 This book presents the latest findings on statistical inference in multivariate multilinear and mixed linear models providing a holistic presentation of the subject It contains pioneering and carefully selected review contributions by experts in the field and guides the reader through topics related to estimation and testing of multivariate and mixed linear model parameters Starting with the theory of multivariate distributions covering identification and testing of covariance structures and means under various multivariate models it goes on to discuss estimation in mixed linear models and their transformations The results presented originate from the work of the research group Multivariate and Mixed Linear Models and their meetings held at the Mathematical Research and Conference Center in B dlewo Poland over the last 10 years Featuring an extensive bibliography of related publications the book is intended for PhD students and researchers in modern statistical science who are interested in multivariate and mixed linear models

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Table of Contents November 2013 Mathematics Memo Paper2

1. Understanding the eBook November 2013 Mathematics Memo Paper2
 - The Rise of Digital Reading November 2013 Mathematics Memo Paper2
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2013 Mathematics Memo Paper2
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an November 2013 Mathematics Memo Paper2
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2013 Mathematics Memo Paper2
 - Personalized Recommendations
 - November 2013 Mathematics Memo Paper2 User Reviews and Ratings
 - November 2013 Mathematics Memo Paper2 and Bestseller Lists
5. Accessing November 2013 Mathematics Memo Paper2 Free and Paid eBooks
 - November 2013 Mathematics Memo Paper2 Public Domain eBooks
 - November 2013 Mathematics Memo Paper2 eBook Subscription Services
 - November 2013 Mathematics Memo Paper2 Budget-Friendly Options
6. Navigating November 2013 Mathematics Memo Paper2 eBook Formats

- ePub, PDF, MOBI, and More
 - November 2013 Mathematics Memo Paper2 Compatibility with Devices
 - November 2013 Mathematics Memo Paper2 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2013 Mathematics Memo Paper2
 - Highlighting and Note-Taking November 2013 Mathematics Memo Paper2
 - Interactive Elements November 2013 Mathematics Memo Paper2
 8. Staying Engaged with November 2013 Mathematics Memo Paper2
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2013 Mathematics Memo Paper2
 9. Balancing eBooks and Physical Books November 2013 Mathematics Memo Paper2
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2013 Mathematics Memo Paper2
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine November 2013 Mathematics Memo Paper2
 - Setting Reading Goals November 2013 Mathematics Memo Paper2
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of November 2013 Mathematics Memo Paper2
 - Fact-Checking eBook Content of November 2013 Mathematics Memo Paper2
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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