

**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 $\cos \theta = -\frac{1}{2}$ 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]

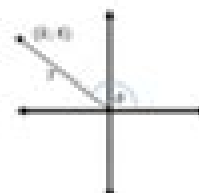
QUESTION 3

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.



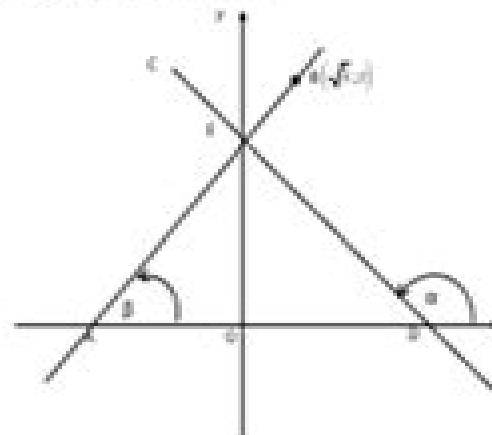
(5)
[10]

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)

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PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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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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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

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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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Table of Contents November 2013 Paper 4 Math

1. Understanding the eBook November 2013 Paper 4 Math
 - The Rise of Digital Reading November 2013 Paper 4 Math
 - Advantages of eBooks Over Traditional Books
2. Identifying November 2013 Paper 4 Math
 - 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 Paper 4 Math
 - User-Friendly Interface
4. Exploring eBook Recommendations from November 2013 Paper 4 Math
 - Personalized Recommendations
 - November 2013 Paper 4 Math User Reviews and Ratings
 - November 2013 Paper 4 Math and Bestseller Lists

5. Accessing November 2013 Paper 4 Math Free and Paid eBooks
 - November 2013 Paper 4 Math Public Domain eBooks
 - November 2013 Paper 4 Math eBook Subscription Services
 - November 2013 Paper 4 Math Budget-Friendly Options
6. Navigating November 2013 Paper 4 Math eBook Formats
 - ePub, PDF, MOBI, and More
 - November 2013 Paper 4 Math Compatibility with Devices
 - November 2013 Paper 4 Math Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of November 2013 Paper 4 Math
 - Highlighting and Note-Taking November 2013 Paper 4 Math
 - Interactive Elements November 2013 Paper 4 Math
8. Staying Engaged with November 2013 Paper 4 Math
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers November 2013 Paper 4 Math
9. Balancing eBooks and Physical Books November 2013 Paper 4 Math
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection November 2013 Paper 4 Math
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine November 2013 Paper 4 Math
 - Setting Reading Goals November 2013 Paper 4 Math
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of November 2013 Paper 4 Math
 - Fact-Checking eBook Content of November 2013 Paper 4 Math
 - 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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