

**GRADE 11 MATHEMATICS  
NOVEMBER EXAMINATION PAPER 2**

**QUESTION 1**

1.1 Calculate the following with the use of a calculator:

1.1.1  $\sin 42^\circ + \cos 42^\circ$  (1)

1.1.2  $\tan^2 30^\circ$  (1)

1.1.3  $\cot 32^\circ + \operatorname{cosec} 15^\circ$  (1)

1.2 If  $A = 24,3^\circ$  and  $B = 22,2^\circ$ , calculate the following to two decimal places:

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

1.2.2  $\sin\left(\frac{A}{B}\right)$  (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  $3\sin(\theta - 90^\circ)$  (1)

2.2 Simplify the following expression:  $\frac{\sin(-2\alpha)}{\cos(2\alpha)} + \frac{\cos(\alpha+90^\circ)}{\sin(3\alpha+45^\circ)}$  (1)

2.3 Prove that:  $\tan \theta \sqrt{\frac{1}{\sin^2 \theta} - 1} = 1$  (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  $-90^\circ \leq x \leq 180^\circ$ .

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

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



(5)  
[10]

**QUESTION 4**

In the diagram below, the angle between line AB and the x-axis is  $\beta$ . The angle between line CD and the x-axis is  $\theta$ . A and B are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are  $(7, 4)$ .

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

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  $\alpha$ . (2)

4.3 Calculate the numerical value of  $\beta$ . (2)

# Mathematics Paper 2013 November

**CL Gary**



**Mathematics Paper 2013 November:**

## **Mathematics Paper 2013 November** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mathematics Paper 2013 November**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Mathematics Paper 2013 November**

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

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