

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 $\cos 30^\circ \times \csc 15^\circ$ (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 $\sin\left(\frac{A}{2}\right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30^\circ + \cos 60^\circ$ (2)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (2)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (2)

QUESTION 2

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

2.1 Given $\cos \theta = -\frac{1}{2}$ and $180^\circ \leq \theta \leq 180^\circ$

Use a diagram to determine the values of:

2.1.1 $\tan(180^\circ + \theta)$ (2)

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

2.2 Simplify the following expression $\frac{\sin(-180^\circ)}{\cos(360^\circ)} + \frac{\cos(0^\circ)}{\sin(360^\circ)}$ (2)

2.3 Prove that $\tan^2 \theta - 1 = \frac{1}{\cos^2 \theta} - 1 = \frac{1}{1 + \tan^2 \theta}$ (4)

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

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

Show the coordinates of the turning points and all axis intercepts.

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



(2)

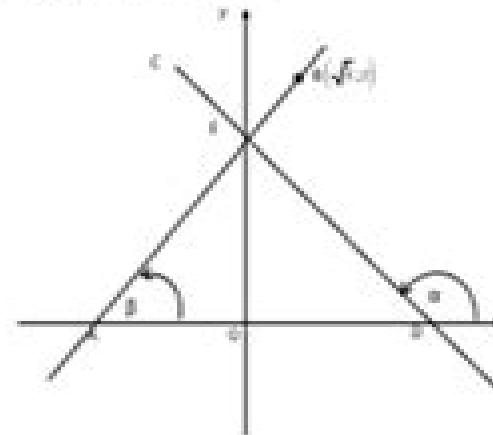
(2)
[14]

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 C are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(\sqrt{3}, 1)$.

The intercept point E of lines AB and CD lies on the y-axis. $\angle C = 60.69^\circ$

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



(2)

(2)

(2)

4.1 Determine the coordinates of E.

4.2 Calculate the numerical value of α .

4.3 Calculate the numerical value of β .

(2)

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Table of Contents Question Paper 2 Mathematics Grade 11 Nov December

1. Understanding the eBook Question Paper 2 Mathematics Grade 11 Nov December
 - The Rise of Digital Reading Question Paper 2 Mathematics Grade 11 Nov December
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper 2 Mathematics Grade 11 Nov December
 - 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 Question Paper 2 Mathematics Grade 11 Nov December
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper 2 Mathematics Grade 11 Nov December
 - Personalized Recommendations
 - Question Paper 2 Mathematics Grade 11 Nov December User Reviews and Ratings
 - Question Paper 2 Mathematics Grade 11 Nov December and Bestseller Lists
5. Accessing Question Paper 2 Mathematics Grade 11 Nov December Free and Paid eBooks

- Question Paper 2 Mathematics Grade 11 Nov December Public Domain eBooks
- Question Paper 2 Mathematics Grade 11 Nov December eBook Subscription Services
- Question Paper 2 Mathematics Grade 11 Nov December Budget-Friendly Options

6. Navigating Question Paper 2 Mathematics Grade 11 Nov December eBook Formats

- eBook, PDF, MOBI, and More
- Question Paper 2 Mathematics Grade 11 Nov December Compatibility with Devices
- Question Paper 2 Mathematics Grade 11 Nov December Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Question Paper 2 Mathematics Grade 11 Nov December
- Highlighting and Note-Taking Question Paper 2 Mathematics Grade 11 Nov December
- Interactive Elements Question Paper 2 Mathematics Grade 11 Nov December

8. Staying Engaged with Question Paper 2 Mathematics Grade 11 Nov December

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Question Paper 2 Mathematics Grade 11 Nov December

9. Balancing eBooks and Physical Books Question Paper 2 Mathematics Grade 11 Nov December

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Question Paper 2 Mathematics Grade 11 Nov December

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Question Paper 2 Mathematics Grade 11 Nov December

- Setting Reading Goals Question Paper 2 Mathematics Grade 11 Nov December
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Question Paper 2 Mathematics Grade 11 Nov December

- Fact-Checking eBook Content of Question Paper 2 Mathematics Grade 11 Nov December
- 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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