

**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: $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(260^\circ + \pi)}$ (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]

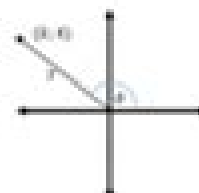
QUESTION 3

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.



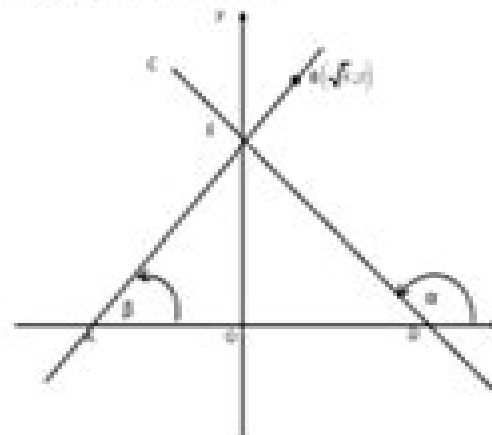
(5)
[10]

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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Memorandum

Henry Pettus Randall



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The Top Books of the Year Grade 1 mathematics Paper 2 November 2013 Memorandum The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have charmed audiences this year. Grade 1 mathematics Paper 2 November 2013 Memorandum : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Grade 1 mathematics Paper 2 November 2013 Memorandum : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Grade 1mathematics Paper 2 November 2013 Memorandum

1. Understanding the eBook Grade 1mathematics Paper 2 November 2013 Memorandum
 - The Rise of Digital Reading Grade 1mathematics Paper 2 November 2013 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1mathematics Paper 2 November 2013 Memorandum
 - 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 Grade 1mathematics Paper 2 November 2013 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1mathematics Paper 2 November 2013 Memorandum
 - Personalized Recommendations
 - Grade 1mathematics Paper 2 November 2013 Memorandum User Reviews and Ratings
 - Grade 1mathematics Paper 2 November 2013 Memorandum and Bestseller Lists
5. Accessing Grade 1mathematics Paper 2 November 2013 Memorandum Free and Paid eBooks
 - Grade 1mathematics Paper 2 November 2013 Memorandum Public Domain eBooks
 - Grade 1mathematics Paper 2 November 2013 Memorandum eBook Subscription Services
 - Grade 1mathematics Paper 2 November 2013 Memorandum Budget-Friendly Options
6. Navigating Grade 1mathematics Paper 2 November 2013 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1mathematics Paper 2 November 2013 Memorandum Compatibility with Devices
 - Grade 1mathematics Paper 2 November 2013 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1mathematics Paper 2 November 2013 Memorandum
 - Highlighting and Note-Taking Grade 1mathematics Paper 2 November 2013 Memorandum
 - Interactive Elements Grade 1mathematics Paper 2 November 2013 Memorandum
8. Staying Engaged with Grade 1mathematics Paper 2 November 2013 Memorandum

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Grade 1mathematics Paper 2 November 2013 Memorandum
- 9. Balancing eBooks and Physical Books Grade 1mathematics Paper 2 November 2013 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1mathematics Paper 2 November 2013 Memorandum
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Grade 1mathematics Paper 2 November 2013 Memorandum
 - Setting Reading Goals Grade 1mathematics Paper 2 November 2013 Memorandum
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Grade 1mathematics Paper 2 November 2013 Memorandum
 - Fact-Checking eBook Content of Grade 1mathematics Paper 2 November 2013 Memorandum
 - 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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