

# GRADE 11 MATHEMATICS NOVEMBER EXAMINATION PAPER 2

#### QUESTION 1

- 1.1 Calculate the following with the use of a calculator:
  - 1.1.1 sin 47 + cos 47\* (1)
  - 1.1.2 nm<sup>2</sup>50" (1)
  - 1.1.3 cot 33° x conec 15° (1)
- 1.2 If A + 24,3° and B + 22,2°, calculate the following to two decimal places:
  - 121 sin (A+B) (2
  - 122 sec⊕ (2)
- 1.3 Calculate the following without the use of a calculator:
  - 1.3.1 sin 30" + cos 60"
  - 1.3.2 tan-45" × cos 45"
  - 1.3.5 cos 90" + sin 90" (3)
    - 11(2)

a)

(di)

#### QUESTION 2

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

2.4 Determine the general solution for: 2sinf 8 × 1 + sin 8

- 2.1 Given one 8 x - and 0" ≤ 8 ≤ 180". Use a diagram to determine the values of:
  - 2.5.5 tan(180\*+8)
  - 2.12 3sin-8 90°) (2
- 22 Simplify the following expression: excitated + expression (5
- 2.3 Proof that tunit 1 = 1 = 1 (4
- The same transfer of the same
- Alter Manager Markette

#### 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  $-30^\circ \le x \le 180^\circ$ .

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

(5)

3.2 Study the following sketch and determine the value of cost – sixel, without the use of a calculator.





#### QUESTION 4

In the diagram below, the angle between line AB and the s-axis is  $\beta$ . The angle between line CD and the x-axis is  $\beta$ . A and  $\Omega$  are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B ig:  $(\sqrt{3}, \epsilon)$ .

The intercept point E, of lines AB and CD lies on the y-axis. AED + 60,69°. The equation of the line CD is given as: 3z + 2y + 6



- Determine the coordinates of E.
  - committee of coordinates of E. (4)
- 4.2 Calculate the numerical value of a:

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4.3 Calculate the numerical value of §

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#### **Table of Contents Maths Paper 2 For Grade 11 November 2014**

- 1. Understanding the eBook Maths Paper 2 For Grade 11 November 2014
  - The Rise of Digital Reading Maths Paper 2 For Grade 11 November 2014
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Paper 2 For Grade 11 November 2014
  - 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 Maths Paper 2 For Grade 11 November 2014
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Paper 2 For Grade 11 November 2014
  - Personalized Recommendations
  - Maths Paper 2 For Grade 11 November 2014 User Reviews and Ratings
  - Maths Paper 2 For Grade 11 November 2014 and Bestseller Lists
- 5. Accessing Maths Paper 2 For Grade 11 November 2014 Free and Paid eBooks
  - Maths Paper 2 For Grade 11 November 2014 Public Domain eBooks
  - Maths Paper 2 For Grade 11 November 2014 eBook Subscription Services
  - Maths Paper 2 For Grade 11 November 2014 Budget-Friendly Options

- 6. Navigating Maths Paper 2 For Grade 11 November 2014 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Maths Paper 2 For Grade 11 November 2014 Compatibility with Devices
  - Maths Paper 2 For Grade 11 November 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Maths Paper 2 For Grade 11 November 2014
  - Highlighting and Note-Taking Maths Paper 2 For Grade 11 November 2014
  - Interactive Elements Maths Paper 2 For Grade 11 November 2014
- 8. Staying Engaged with Maths Paper 2 For Grade 11 November 2014
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - o Following Authors and Publishers Maths Paper 2 For Grade 11 November 2014
- 9. Balancing eBooks and Physical Books Maths Paper 2 For Grade 11 November 2014
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper 2 For Grade 11 November 2014
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 2 For Grade 11 November 2014
  - Setting Reading Goals Maths Paper 2 For Grade 11 November 2014
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 2 For Grade 11 November 2014
  - Fact-Checking eBook Content of Maths Paper 2 For Grade 11 November 2014
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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psychogenic amnesia attempting to discover his identity amidst a clandestine conspiracy within the cia **the bourne identity 2002 plot imdb** - Feb 25 2023

web eventually he begins to remember smaller details in life and soon finds out that his name was jason bourne what he doesn t like is the gun and fake passports belonging to him now bourne and his new friend marie helena kreutz potente travel from country to country in search of his new identity

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