

Datum / Date:	SEPTEMBER 2024
Tyd / Time:	3 hours
Punte / Marks:	150
Vraag / Grade:	12
Vak / Subject:	Technical Mathematics
Verspreid / Paper:	1

Naam en Van / Name and Surname: _____

General instructions for the writing of exams:

1.	Quickly scan through your entire paper.
2.	Read the question twice before you begin.
3.	Make sure to answer ALL questions.
4.	Write neatly and legibly.
5.	If you struggle too much with a question, move on to the next one and return once you have answered all the other questions.
6.	If the question calls for a longer answer, plan before you start writing.
7.	For any answer longer than 1-2 words, always write in full sentences.
8.	Make sure every point you make refers to the central question.
9.	Use correct grammar, spelling, and punctuation to the best of your ability.
10.	If you make a mistake, cross it out clearly with a single, neat line and write the correct answer instead.
11.	Number the answers correctly according to the numbering system used in this question paper.
12.	Present your answers according to the instructions for each question.

Good luck with your exam!

Topics covered in this paper:

- Algebraic Equations and Inequalities
- Geometry and Area Calculations
- Formulas and Subject Manipulation
- Number Systems
- Logarithms and Exponentials
- Complex Numbers
- Functions and Graphs
- Quadratic Functions
- Discriminants and Nature of Roots
- Calculus
- Financial Mathematics
- Projectile Motion
- Integration

QUESTION 1

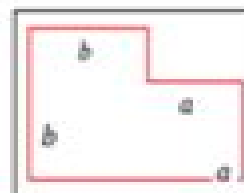
1.1 Solve for x

1.1.1 $-2x(x + a)(3 - x) = 0$ (2)

1.1.2 $2x = 6 - x^2$ (4)

1.1.3 $5x(x - 2) \leq 0$ (2)

1.2 The total area represented by the building premises given below is 21 units². The equation $b = 2a - 7$ represents the relationship of the sides of the two squares.



Solve for x and y (dimensions of two squares) if:

$$y - 2x = -7 \quad x^2 + xy + y^2 = 21 \quad (7)$$

1.3 The formula below represents the moment of inertia (I), with mass (M) and length (L).

$$I = \frac{1}{12} ML^2$$

1.3.1 Make L the subject of the formula. (2)

1.3.2 Calculate the value of L , if $I = 8.3 \times 10^{-11} \text{ kg} \cdot \text{m}^2$ and $M = 1.6 \times 10^3 \text{ kg}$. (2)

1.4 Express 36 as a binary number. (2)

(22)

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Table of Contents September Grade 12 Mathematics Paper Memorandum

1. Understanding the eBook September Grade 12 Mathematics Paper Memorandum
 - The Rise of Digital Reading September Grade 12 Mathematics Paper Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying September Grade 12 Mathematics Paper 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 September Grade 12 Mathematics Paper Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from September Grade 12 Mathematics Paper Memorandum
 - Personalized Recommendations
 - September Grade 12 Mathematics Paper Memorandum User Reviews and Ratings
 - September Grade 12 Mathematics Paper Memorandum and Bestseller Lists
5. Accessing September Grade 12 Mathematics Paper Memorandum Free and Paid eBooks
 - September Grade 12 Mathematics Paper Memorandum Public Domain eBooks
 - September Grade 12 Mathematics Paper Memorandum eBook Subscription Services

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