



GAUTENG PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION
2021

10611

MATHEMATICS

PAPER 1

MATHEMATICS
(Paper 1)

10611/21

3

QUESTION 1

GET TOTAL

1.1 Solve for x :

1.1.1 $3x^2 - 4x = 0$ (2)

1.1.2 $3x^2 + 10x - 4 = 0$ (Correct to TWO decimal places) (2)

1.1.3 $13x - 4 = 9x^2$ (2)

1.1.4 $\sqrt{x^2 + 5} = 2\sqrt{x}$ (4)

1.2 Given: $(3x - y)^2 + (x - 5)^2 = 0$
Solve for x and y . (2)

1.3 Given: $x - 2 = \frac{-4}{x - 2} + 4$

If $y = x - 2$

1.3.1 Show that the given equation can be expressed as: $y^2 + 4y + 4 = 0$. (2)

1.3.2 Hence, show that the equation has real and equal roots. (2)

1.4 Calculate the maximum value of h if: $h = \frac{6}{x^2 + 2}$ (2)

[21]

TIME: 3 hours

MARKS: 150

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Table of Contents Gauteng Preparatory Question Papers

1. Understanding the eBook Gauteng Preparatory Question Papers
 - The Rise of Digital Reading Gauteng Preparatory Question Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Preparatory Question Papers
 - 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 Gauteng Preparatory Question Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng Preparatory Question Papers
 - Personalized Recommendations
 - Gauteng Preparatory Question Papers User Reviews and Ratings
 - Gauteng Preparatory Question Papers and Bestseller Lists
5. Accessing Gauteng Preparatory Question Papers Free and Paid eBooks
 - Gauteng Preparatory Question Papers Public Domain eBooks
 - Gauteng Preparatory Question Papers eBook Subscription Services
 - Gauteng Preparatory Question Papers Budget-Friendly Options

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