

GAUTENG DEPARTMENT OF EDUCATION
PREPARATORY EXAMINATION

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MATHEMATICS
(First Paper)

MEMORANDUM

QUESTION 1 [14]

1.1 $x(x+2) = 0$
 $x = 0$ or $x = -2$

1A factorizing
2 CA for each answer

[3]

1.2 $x \leq -2$ or $x \geq 0$; with $x > 0$
 $\therefore x > 0$

2CA for each inequality
(-1) if "<" is used
1CA for selecting correct inequality
Full marks for answer only.

[3]

1.3 $x = \frac{-(-3) \pm \sqrt{(-3)^2 - 4(2)(-7)}}{2(2)}$
 $x = \frac{3 \pm \sqrt{65}}{4}$
 $x = 2.77$ or $x = -1.27$

1A substitution into correct formula

$\frac{2}{3}$ if left in surd form

2CA for each correct answer

[3]

1.4 $1 + 2^{n-2} + 2^{n-1} + 2^n = 53$
 $2^n(2^{-2} + 2 + 1) = 52$
 $2^n = 16$
 $n = 4$

1A for $2^0 = 1$
1A for factorizing
1A for RHS
1CA
1CA

[5]

QUESTION 2 [10]

2.1.1 $(x+1)^2 - 4 = 16$
 $(x+1)^2 = 20$
 $x+1 = \pm\sqrt{20}$
 $x = \pm 2\sqrt{5} - 1$

OR

$(x+1)^2 - 4 = 16$
 $x^2 + 2x - 19 = 0$
 $x = \frac{-2 \pm \sqrt{(2)^2 - 4(-19)}}{2}$
 $x = \pm 2\sqrt{5} - 1$

1A squaring both sides
1CA for isolating complete square
1M for taking square root
2CA for each answer

1A squaring both sides
1CA simplification
1CA substitution into correct formula

2CA for each answer

[5]

2.1.2 $k = 0$

1A

[1]

Gauteng 2014 Preparatory Mathematics

Camilla Rothe



Gauteng 2014 Preparatory Mathematics:

The book delves into Gauteng 2014 Preparatory Mathematics. Gauteng 2014 Preparatory Mathematics is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gauteng 2014 Preparatory Mathematics, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Gauteng 2014 Preparatory Mathematics
 - Chapter 2: Essential Elements of Gauteng 2014 Preparatory Mathematics
 - Chapter 3: Gauteng 2014 Preparatory Mathematics in Everyday Life
 - Chapter 4: Gauteng 2014 Preparatory Mathematics in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Gauteng 2014 Preparatory Mathematics. The first chapter will explore what Gauteng 2014 Preparatory Mathematics is, why Gauteng 2014 Preparatory Mathematics is vital, and how to effectively learn about Gauteng 2014 Preparatory Mathematics.
 3. In chapter 2, the author will delve into the foundational concepts of Gauteng 2014 Preparatory Mathematics. The second chapter will elucidate the essential principles that must be understood to grasp Gauteng 2014 Preparatory Mathematics in its entirety.
 4. In chapter 3, this book will examine the practical applications of Gauteng 2014 Preparatory Mathematics in daily life. The third chapter will showcase real-world examples of how Gauteng 2014 Preparatory Mathematics can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Gauteng 2014 Preparatory Mathematics in specific contexts. The fourth chapter will explore how Gauteng 2014 Preparatory Mathematics is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Gauteng 2014 Preparatory Mathematics. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Gauteng 2014 Preparatory Mathematics.

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Table of Contents Gauteng 2014 Preparatory Mathematics

1. Understanding the eBook Gauteng 2014 Preparatory Mathematics
 - The Rise of Digital Reading Gauteng 2014 Preparatory Mathematics
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng 2014 Preparatory Mathematics
 - 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 2014 Preparatory Mathematics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng 2014 Preparatory Mathematics
 - Personalized Recommendations
 - Gauteng 2014 Preparatory Mathematics User Reviews and Ratings
 - Gauteng 2014 Preparatory Mathematics and Bestseller Lists
5. Accessing Gauteng 2014 Preparatory Mathematics Free and Paid eBooks
 - Gauteng 2014 Preparatory Mathematics Public Domain eBooks
 - Gauteng 2014 Preparatory Mathematics eBook Subscription Services
 - Gauteng 2014 Preparatory Mathematics Budget-Friendly Options
6. Navigating Gauteng 2014 Preparatory Mathematics eBook Formats
 - ePub, PDF, MOBI, and More
 - Gauteng 2014 Preparatory Mathematics Compatibility with Devices
 - Gauteng 2014 Preparatory Mathematics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng 2014 Preparatory Mathematics
 - Highlighting and Note-Taking Gauteng 2014 Preparatory Mathematics
 - Interactive Elements Gauteng 2014 Preparatory Mathematics

8. Staying Engaged with Gauteng 2014 Preparatory Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng 2014 Preparatory Mathematics
9. Balancing eBooks and Physical Books Gauteng 2014 Preparatory Mathematics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng 2014 Preparatory Mathematics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gauteng 2014 Preparatory Mathematics
 - Setting Reading Goals Gauteng 2014 Preparatory Mathematics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gauteng 2014 Preparatory Mathematics
 - Fact-Checking eBook Content of Gauteng 2014 Preparatory Mathematics
 - 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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