

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 Maths Preparatory Paper2014

H Kauffman



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Table of Contents Gauteng Maths Preparatory Paper2014

1. Understanding the eBook Gauteng Maths Preparatory Paper2014
 - The Rise of Digital Reading Gauteng Maths Preparatory Paper2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Maths Preparatory Paper2014
 - 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 Maths Preparatory Paper2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng Maths Preparatory Paper2014
 - Personalized Recommendations
 - Gauteng Maths Preparatory Paper2014 User Reviews and Ratings
 - Gauteng Maths Preparatory Paper2014 and Bestseller Lists
5. Accessing Gauteng Maths Preparatory Paper2014 Free and Paid eBooks
 - Gauteng Maths Preparatory Paper2014 Public Domain eBooks
 - Gauteng Maths Preparatory Paper2014 eBook Subscription Services
 - Gauteng Maths Preparatory Paper2014 Budget-Friendly Options

6. Navigating Gauteng Maths Preparatory Paper2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gauteng Maths Preparatory Paper2014 Compatibility with Devices
 - Gauteng Maths Preparatory Paper2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng Maths Preparatory Paper2014
 - Highlighting and Note-Taking Gauteng Maths Preparatory Paper2014
 - Interactive Elements Gauteng Maths Preparatory Paper2014
8. Staying Engaged with Gauteng Maths Preparatory Paper2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng Maths Preparatory Paper2014
9. Balancing eBooks and Physical Books Gauteng Maths Preparatory Paper2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng Maths Preparatory Paper2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gauteng Maths Preparatory Paper2014
 - Setting Reading Goals Gauteng Maths Preparatory Paper2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gauteng Maths Preparatory Paper2014
 - Fact-Checking eBook Content of Gauteng Maths Preparatory Paper2014
 - 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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