

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]

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Emilie Sanchez



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Table of Contents Gauteng Preparatory Examination Mathematics Memo 2014

1. Understanding the eBook Gauteng Preparatory Examination Mathematics Memo 2014
 - The Rise of Digital Reading Gauteng Preparatory Examination Mathematics Memo 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Preparatory Examination Mathematics Memo 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 Gauteng Preparatory Examination Mathematics Memo 2014
 - User-Friendly Interface

4. Exploring eBook Recommendations from Gauteng Preparatory Examination Mathematics Memo 2014
 - Personalized Recommendations
 - Gauteng Preparatory Examination Mathematics Memo 2014 User Reviews and Ratings
 - Gauteng Preparatory Examination Mathematics Memo 2014 and Bestseller Lists
5. Accessing Gauteng Preparatory Examination Mathematics Memo 2014 Free and Paid eBooks
 - Gauteng Preparatory Examination Mathematics Memo 2014 Public Domain eBooks
 - Gauteng Preparatory Examination Mathematics Memo 2014 eBook Subscription Services
 - Gauteng Preparatory Examination Mathematics Memo 2014 Budget-Friendly Options
6. Navigating Gauteng Preparatory Examination Mathematics Memo 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gauteng Preparatory Examination Mathematics Memo 2014 Compatibility with Devices
 - Gauteng Preparatory Examination Mathematics Memo 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng Preparatory Examination Mathematics Memo 2014
 - Highlighting and Note-Taking Gauteng Preparatory Examination Mathematics Memo 2014
 - Interactive Elements Gauteng Preparatory Examination Mathematics Memo 2014
8. Staying Engaged with Gauteng Preparatory Examination Mathematics Memo 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng Preparatory Examination Mathematics Memo 2014
9. Balancing eBooks and Physical Books Gauteng Preparatory Examination Mathematics Memo 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng Preparatory Examination Mathematics Memo 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gauteng Preparatory Examination Mathematics Memo 2014
 - Setting Reading Goals Gauteng Preparatory Examination Mathematics Memo 2014
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Gauteng Preparatory Examination Mathematics Memo 2014
 - Fact-Checking eBook Content of Gauteng Preparatory Examination Mathematics Memo 2014
 - 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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