

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

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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ML Yell



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Table of Contents Mathematics Paper Preliminary Exam 2014 Gauteng

1. Understanding the eBook Mathematics Paper Preliminary Exam 2014 Gauteng
 - The Rise of Digital Reading Mathematics Paper Preliminary Exam 2014 Gauteng
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Paper Preliminary Exam 2014 Gauteng
 - 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 Mathematics Paper Preliminary Exam 2014 Gauteng
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Paper Preliminary Exam 2014 Gauteng
 - Personalized Recommendations
 - Mathematics Paper Preliminary Exam 2014 Gauteng User Reviews and Ratings
 - Mathematics Paper Preliminary Exam 2014 Gauteng and Bestseller Lists
5. Accessing Mathematics Paper Preliminary Exam 2014 Gauteng Free and Paid eBooks
 - Mathematics Paper Preliminary Exam 2014 Gauteng Public Domain eBooks
 - Mathematics Paper Preliminary Exam 2014 Gauteng eBook Subscription Services
 - Mathematics Paper Preliminary Exam 2014 Gauteng Budget-Friendly Options

6. Navigating Mathematics Paper Preliminary Exam 2014 Gauteng eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Paper Preliminary Exam 2014 Gauteng Compatibility with Devices
 - Mathematics Paper Preliminary Exam 2014 Gauteng Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Paper Preliminary Exam 2014 Gauteng
 - Highlighting and Note-Taking Mathematics Paper Preliminary Exam 2014 Gauteng
 - Interactive Elements Mathematics Paper Preliminary Exam 2014 Gauteng
8. Staying Engaged with Mathematics Paper Preliminary Exam 2014 Gauteng
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Paper Preliminary Exam 2014 Gauteng
9. Balancing eBooks and Physical Books Mathematics Paper Preliminary Exam 2014 Gauteng
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Paper Preliminary Exam 2014 Gauteng
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Paper Preliminary Exam 2014 Gauteng
 - Setting Reading Goals Mathematics Paper Preliminary Exam 2014 Gauteng
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Paper Preliminary Exam 2014 Gauteng
 - Fact-Checking eBook Content of Mathematics Paper Preliminary Exam 2014 Gauteng
 - 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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