

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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Terry C. Jones



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Table of Contents Gauteng Preparatory Exam Math P1 Memo 2014

1. Understanding the eBook Gauteng Preparatory Exam Math P1 Memo 2014
 - The Rise of Digital Reading Gauteng Preparatory Exam Math P1 Memo 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Preparatory Exam Math P1 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 Exam Math P1 Memo 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng Preparatory Exam Math P1 Memo 2014
 - Personalized Recommendations
 - Gauteng Preparatory Exam Math P1 Memo 2014 User Reviews and Ratings
 - Gauteng Preparatory Exam Math P1 Memo 2014 and Bestseller Lists
5. Accessing Gauteng Preparatory Exam Math P1 Memo 2014 Free and Paid eBooks
 - Gauteng Preparatory Exam Math P1 Memo 2014 Public Domain eBooks
 - Gauteng Preparatory Exam Math P1 Memo 2014 eBook Subscription Services
 - Gauteng Preparatory Exam Math P1 Memo 2014 Budget-Friendly Options
6. Navigating Gauteng Preparatory Exam Math P1 Memo 2014 eBook Formats

- ePub, PDF, MOBI, and More
 - Gauteng Preparatory Exam Math P1 Memo 2014 Compatibility with Devices
 - Gauteng Preparatory Exam Math P1 Memo 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng Preparatory Exam Math P1 Memo 2014
 - Highlighting and Note-Taking Gauteng Preparatory Exam Math P1 Memo 2014
 - Interactive Elements Gauteng Preparatory Exam Math P1 Memo 2014
 8. Staying Engaged with Gauteng Preparatory Exam Math P1 Memo 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng Preparatory Exam Math P1 Memo 2014
 9. Balancing eBooks and Physical Books Gauteng Preparatory Exam Math P1 Memo 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng Preparatory Exam Math P1 Memo 2014
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Gauteng Preparatory Exam Math P1 Memo 2014
 - Setting Reading Goals Gauteng Preparatory Exam Math P1 Memo 2014
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Gauteng Preparatory Exam Math P1 Memo 2014
 - Fact-Checking eBook Content of Gauteng Preparatory Exam Math P1 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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