131

131

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GAUTENG DEPARTMENT OF EDUCATION

PREPARATORY EXAMINATON

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MATHEMATICS (First Paper)

MEMORANDUM

QUESTION 1 [14]

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

 $x = 0$ or $x = -2$

1.2
$$x \le -2$$
 or $x \ge 0$; with $x > 0$
 $\therefore x > 0$

1.3
$$x = \frac{-(-3) \pm \sqrt{(-3)^9 - 4(2)(-7)}}{2(2)}$$
$$x = \frac{3 \pm \sqrt{65}}{4}$$
$$x = 2.77 \quad \text{or} \quad x = -1.27$$

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

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

$$2.1.2 k = 0$$

1A factorizing 2 CA for each answer

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

IA substitution into correct formula

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

2CA for each correct answer [3]

1A for 2° = 1 1A for factorizing 1A for RHS 1CA 1CA

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

IA squaring both sides ICA simplification ICA substitution into correct formula

2CA for each answer

LA

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[5]

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Shasha Hu

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Table of Contents Gauteng Preparatory Exam Paper 2014 Physics

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

- 6. Navigating Gauteng Preparatory Exam Paper 2014 Physics eBook Formats
 - o ePub, PDF, MOBI, and More
 - Gauteng Preparatory Exam Paper 2014 Physics Compatibility with Devices
 - Gauteng Preparatory Exam Paper 2014 Physics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gauteng Preparatory Exam Paper 2014 Physics
 - Highlighting and Note-Taking Gauteng Preparatory Exam Paper 2014 Physics
 - Interactive Elements Gauteng Preparatory Exam Paper 2014 Physics
- 8. Staying Engaged with Gauteng Preparatory Exam Paper 2014 Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng Preparatory Exam Paper 2014 Physics
- 9. Balancing eBooks and Physical Books Gauteng Preparatory Exam Paper 2014 Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng Preparatory Exam Paper 2014 Physics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gauteng Preparatory Exam Paper 2014 Physics
 - Setting Reading Goals Gauteng Preparatory Exam Paper 2014 Physics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gauteng Preparatory Exam Paper 2014 Physics
 - Fact-Checking eBook Content of Gauteng Preparatory Exam Paper 2014 Physics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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