

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 Question Papers 2014

Shasha Hu



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1. Understanding the eBook Gauteng Question Papers 2014
 - The Rise of Digital Reading Gauteng Question Papers 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Question Papers 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 Question Papers 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng Question Papers 2014
 - Personalized Recommendations
 - Gauteng Question Papers 2014 User Reviews and Ratings
 - Gauteng Question Papers 2014 and Bestseller Lists

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