

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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Rachel Sandford



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1. Understanding the eBook Maths Paper1 June 2014 Grd12 Gauteng
 - The Rise of Digital Reading Maths Paper1 June 2014 Grd12 Gauteng
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 June 2014 Grd12 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 Maths Paper1 June 2014 Grd12 Gauteng
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 June 2014 Grd12 Gauteng
 - Personalized Recommendations
 - Maths Paper1 June 2014 Grd12 Gauteng User Reviews and Ratings
 - Maths Paper1 June 2014 Grd12 Gauteng and Bestseller Lists
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 - Maths Paper1 June 2014 Grd12 Gauteng Public Domain eBooks
 - Maths Paper1 June 2014 Grd12 Gauteng eBook Subscription Services

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- 6. Navigating Maths Paper1 June 2014 Grd12 Gauteng eBook Formats
 - ePub, PDF, MOBI, and More
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 - Maths Paper1 June 2014 Grd12 Gauteng Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper1 June 2014 Grd12 Gauteng
 - Highlighting and Note-Taking Maths Paper1 June 2014 Grd12 Gauteng
 - Interactive Elements Maths Paper1 June 2014 Grd12 Gauteng
- 8. Staying Engaged with Maths Paper1 June 2014 Grd12 Gauteng
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper1 June 2014 Grd12 Gauteng
- 9. Balancing eBooks and Physical Books Maths Paper1 June 2014 Grd12 Gauteng
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 June 2014 Grd12 Gauteng
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper1 June 2014 Grd12 Gauteng
 - Setting Reading Goals Maths Paper1 June 2014 Grd12 Gauteng
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper1 June 2014 Grd12 Gauteng
 - Fact-Checking eBook Content of Maths Paper1 June 2014 Grd12 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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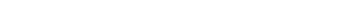
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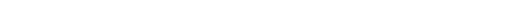
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