

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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**Sabine Zange**



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## **Table of Contents Gauteng Memo Maths Paper Trial 2014**

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

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

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- Interactive and Gamified eBooks

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