

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]

Mathematics P2014 Grade 12 Preparatory Memo

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Table of Contents Mathematics P2014 Grade 12 Preparatory Memo

1. Understanding the eBook Mathematics P2014 Grade 12 Preparatory Memo
 - The Rise of Digital Reading Mathematics P2014 Grade 12 Preparatory Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics P2014 Grade 12 Preparatory Memo
 - 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 Mathematics P2014 Grade 12 Preparatory Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics P2014 Grade 12 Preparatory Memo
 - Personalized Recommendations
 - Mathematics P2014 Grade 12 Preparatory Memo User Reviews and Ratings
 - Mathematics P2014 Grade 12 Preparatory Memo and Bestseller Lists

5. Accessing Mathematics P2014 Grade 12 Preparatory Memo Free and Paid eBooks
 - Mathematics P2014 Grade 12 Preparatory Memo Public Domain eBooks
 - Mathematics P2014 Grade 12 Preparatory Memo eBook Subscription Services
 - Mathematics P2014 Grade 12 Preparatory Memo Budget-Friendly Options
6. Navigating Mathematics P2014 Grade 12 Preparatory Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics P2014 Grade 12 Preparatory Memo Compatibility with Devices
 - Mathematics P2014 Grade 12 Preparatory Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics P2014 Grade 12 Preparatory Memo
 - Highlighting and Note-Taking Mathematics P2014 Grade 12 Preparatory Memo
 - Interactive Elements Mathematics P2014 Grade 12 Preparatory Memo
8. Staying Engaged with Mathematics P2014 Grade 12 Preparatory Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics P2014 Grade 12 Preparatory Memo
9. Balancing eBooks and Physical Books Mathematics P2014 Grade 12 Preparatory Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics P2014 Grade 12 Preparatory Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics P2014 Grade 12 Preparatory Memo
 - Setting Reading Goals Mathematics P2014 Grade 12 Preparatory Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics P2014 Grade 12 Preparatory Memo
 - Fact-Checking eBook Content of Mathematics P2014 Grade 12 Preparatory Memo
 - 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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