

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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G Orfield



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Glimpses into Primary School Teacher Education in South Africa Sarah Gravett, Elizabeth Henning, 2020-11-05 This book explores the current landscape of Initial Teacher Education ITE in primary schools in South Africa Considering recent policy directives and initiatives it highlights the dilemmas of ITE for the primary school and gives a thorough account of innovations and initiatives to improve ITE The book presents what works best for quality preparation of teachers in the Global South where many children rely on their teachers and school life to break the cycle of poverty Chapters draw on evidence from workplace learning pre service study and primary school teacher education policy to highlight examples of promising change in teacher education in South Africa addressing the clichés of theory versus practice head on This book successfully brings out the challenging aspects of teacher education for childhood learning which has otherwise been regarded as the softer option for a career in education This book will be of great interest for academics researchers and post graduate students in the fields of teacher education African education educational policy international education and comparative education

South African Schooling: The Enigma of Inequality Nic Spaull, Jonathan D. Jansen, 2019-11-05 This volume brings together many of South Africa's leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90/10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people's

future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI *Mathematics* ,2002 **Mathematics** ,2001 Mathematics ,2001
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1. Understanding the eBook Gauteng Mathematics Paper Trial 2014 Grade 1
 - The Rise of Digital Reading Gauteng Mathematics Paper Trial 2014 Grade 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Gauteng Mathematics Paper Trial 2014 Grade 1
 - 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 Mathematics Paper Trial 2014 Grade 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gauteng Mathematics Paper Trial 2014 Grade 1

- Personalized Recommendations
 - Gauteng Mathematics Paper Trial 2014 Grade 1 User Reviews and Ratings
 - Gauteng Mathematics Paper Trial 2014 Grade 1 and Bestseller Lists
5. Accessing Gauteng Mathematics Paper Trial 2014 Grade 1 Free and Paid eBooks
- Gauteng Mathematics Paper Trial 2014 Grade 1 Public Domain eBooks
 - Gauteng Mathematics Paper Trial 2014 Grade 1 eBook Subscription Services
 - Gauteng Mathematics Paper Trial 2014 Grade 1 Budget-Friendly Options
6. Navigating Gauteng Mathematics Paper Trial 2014 Grade 1 eBook Formats
- ePub, PDF, MOBI, and More
 - Gauteng Mathematics Paper Trial 2014 Grade 1 Compatibility with Devices
 - Gauteng Mathematics Paper Trial 2014 Grade 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Gauteng Mathematics Paper Trial 2014 Grade 1
 - Highlighting and Note-Taking Gauteng Mathematics Paper Trial 2014 Grade 1
 - Interactive Elements Gauteng Mathematics Paper Trial 2014 Grade 1
8. Staying Engaged with Gauteng Mathematics Paper Trial 2014 Grade 1
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gauteng Mathematics Paper Trial 2014 Grade 1
9. Balancing eBooks and Physical Books Gauteng Mathematics Paper Trial 2014 Grade 1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gauteng Mathematics Paper Trial 2014 Grade 1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gauteng Mathematics Paper Trial 2014 Grade 1
- Setting Reading Goals Gauteng Mathematics Paper Trial 2014 Grade 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gauteng Mathematics Paper Trial 2014 Grade 1

- Fact-Checking eBook Content of Gauteng Mathematics Paper Trial 2014 Grade 1
- 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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