

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 Prilim Exam Papers 2014

RC Schank



Gauteng Prilim Exam Papers 2014:

Twenty Years of Education Transformation in Gauteng 1994 to 2014 Maringe, Felix, Prew, Martin, 2015-05-05 Twenty Years of Education Transformation in Gauteng 1994 to 2014 An Independent Review presents a collection of 15 important essays on different aspects of education in Gauteng since the advent of democracy in 1994 These essays talk to what a provincial education department does and how and why it does these things whether it be about policy resourcing or implementing projects Each essay is written by one or more specialist in the relevant focus area The book is written to be accessible to the general reader as well as being informative and an essential resource for the specialist reader It sheds light on aspects of how a provincial department operates and why and with what consequences certain decisions have been made in education over the last 20 turbulent years both nationally and provincially There has been no attempt to fit the book's chapters into a particular ideological or educational paradigm and as a result the reader will find differing views on various aspects of the Gauteng Department of Education's present and past We leave the reader to decide to what extent the GDE has fulfilled its educational mandate over the last 20 years **Education in a New South Africa** Robert J.

Balfour, 2015-09-24 A collaborative series with the University of Cambridge Faculty of Education highlighting leading edge research across Teacher Education International Education Reform and Language Education **The Politics and**

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Vilarinho, Fernando Castro, Margarida J Quina, 2023-09-06 WASTES Solutions Treatments and Opportunities IV contains selected papers presented at the 6th edition of the International Conference Wastes Solutions Treatments and Opportunities that took place on 6-8 September 2023 in Coimbra Portugal The Wastes conference which takes place biennially is a prime forum for sharing innovations technological developments and sustainable solutions for waste management and recycling

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all scholars interested in international forensic science the volume provides detail on the diverse fields within forensic science and their applications around the world

Proceedings of the International Conference on Education Research Reza Hosseini, **Entrepreneurship, Technology Commercialisation, and Innovation Policy in Africa** Chux Daniels, Mafini Dosso, Joe Amadi-Echendu, 2021-01-04 This book provides a comprehensive overview of role of entrepreneurship technology commercialisation and innovation policy for the achievement of economic development and prosperity in African societies It adopts a broad innovation systems approach The book examines entrepreneurship innovation and technology commercialisation alongside context specific factors associated with them It also provides an interdisciplinary perspective by discussing the above disciplines in a connected way This book is presented in three distinct parts It starts by discussing entrepreneurship and the state of the entrepreneurial ecosystem in Africa It then moves on to present technology commercialisation in Africa before finally discussing the future directions for entrepreneurship technology commercialisation and innovation policy This broad picture provided in the book enables the reader to grasp the relevant messages whilst the detailed analysis applies world class theories and frameworks to deepen the readers understanding of key concepts and issues examined

ICT Education Henri Emil Van Rensburg, Dirk Petrus Snyman, Lynette Drevin, Günther Richard Drevin, 2024-01-02 This book constitutes the refereed proceedings of the 52nd Annual Conference of the Southern African Computer Lecturers Association on ICT Education SACLA 2023 held in Gauteng South Africa during July 19 21 2023 The 12 full papers included in this book were carefully reviewed and selected from 42 submissions They were organized in topical sections as follows student centered teaching and learning AI and future movements programming and beyond the classroom

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