



GAUTENG PROVINCE

EDUCATION  
REPUBLIC OF SOUTH AFRICA

GAUTENG DEPARTMENT OF EDUCATION  
PREPARATORY EXAMINATION  
2021

10611

MATHEMATICS

PAPER 1

MATHEMATICS  
(Paper 1)

10611/21

3

QUESTION 1

**GET TOTAL**

1.1 Solve for  $x$ :

1.1.1  $3x^2 - 4x = 0$  (2)

1.1.2  $3x^2 + 10x - 4 = 0$  (Correct to TWO decimal places) (2)

1.1.3  $15x - 4 = 9x^2$  (2)

1.1.4  $\sqrt{x^2 + 5} = 2\sqrt{x}$  (4)

1.2 Given:  $(3x - y)^2 + (x - 5)^2 = 0$   
Solve for  $x$  and  $y$ . (2)

1.3 Given:  $x - 2 = \frac{-4}{x - 2} + 4$

If  $y = x - 2$

1.3.1 Show that the given equation can be expressed as:  $y^2 + 4y + 4 = 0$ . (2)

1.3.2 Hence, show that the equation has real and equal roots. (2)

1.4 Calculate the maximum value of  $h$  if:  $h = \frac{6}{x^2 + 2}$  (2)

[24]

TIME: 3 hours

MARKS: 150

# Gauteng Preparatory Question Papers

**Henri Emil Van Rensburg, Dirk Petrus  
Snyman, Lynette Drevin, Günther  
Richard Drevin**

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**Interpellations, Questions and Replies of the National Assembly** South Africa. Parliament (1994- ). National Assembly, 1999      **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

**The Routledge Handbook of Digital Literacies in Early Childhood** Ola Erstad, Rosie Flewitt, Bettina Kümmerling-Meibauer, Íris Susana Pereira, 2019-07-05 As fast evolving technologies transform everyday communication and literacy practices many young children find themselves immersed in multiple digital media from birth Such rapid technological change has consequences for the development of early literacy and the ways in which parents and educators are able to equip today's young citizens for a digital future This seminal Handbook fulfils an urgent need to consider how digital technologies are impacting the lives and learning of young children and how childhood experiences of using digital resources can serve as the foundation for present and future development Considering children aged 0 8 years chapters explore the diversity of young children's literacy skills practices and expertise across digital tools technologies and media in varied contexts settings and countries The Handbook explores six significant areas Part I presents an overview of research into young children's digital literacy practices touching on a range of theoretical methodological and ethical approaches Part II considers young children's reading writing and meaning making when using digital media at home and in the wider community Part III offers an overview of key challenges for early childhood education presented by digital literacy and discusses political positioning and curricula Part IV focuses on the multimodal and multi sensory textual landscape of contemporary literary practices and how children learn to read and write with and across media Part V considers how digital technologies both influence and are influenced by children's online and offline social relationships Part VI draws together themes from across the Handbook to propose an agenda for future research into digital literacies in early childhood A timely resource identifying and exploring pedagogies designed to bolster young children's digital and multimodal literacy practices this key text will be of interest to early childhood educators researchers and policy makers      *South African Education Policy Review, 1993-2000* Linda Chisholm, Shireen Motala, Salim Vally, 2003 The South African Education Policy Review is an invaluable historical archive It is a source book on policies conflicts developments and perspectives on education policy in the period 1993 to 2000 Drawing from a selection of articles from the successful Quarterly Reviews of Education and Training produced by the Education Policy Unit of the University of Witwatersrand this book provides readers with detailed accounts of educational changes in South Africa over the past decade It reflects upon significant events trends and debates and

provides insightful analysis of this extremely momentous period of South Africa's history

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