

MAY/JUNE 2023



basic education

Department  
Basic Education  
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS  
NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS P1

MAY/JUNE 2023

MARKS: 50

TIME: 1 hour



## QUESTION 1

- 1.1 Solve for  $x$
- 1.1.1  $x^2 + 3x - 10 = 0$
- 1.1.2  $3x^2 + 4x + 1 = 0$  (answer in TWO decimal places)
- 1.1.3  $3x^2 + 4x - 1 = 0$
- 1.1.4  $3x - 6|x + 2| + 6 = 0$
- 1.1.5  $x = \sqrt{4x^2 + 1}$
- 1.2 A rectangle having sides of  $(x - 2)$  metres and  $(x + 2)$  metres has a perimeter of 24 metres and an area of 15 square metres. Calculate the values of  $x$  and  $x^2$ .
- 1.3 Show that  $(x + x^2 + x^3)^2 - (x^2 + x^3)^2$  is divisible by 2 for all real values of  $x$  and  $x^2$ .

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**Third Symposium Proceedings. New Ways of Teaching and Learning** Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education world wide A Memorandum on Our Vernaculars, as Media of Elementary Instruction Manibhai Jasbhai, 1899 Parliamentary Papers Great Britain. Parliament. House of Commons, 1918 **Memorandum** Rand Corporation, 1968 **The Mathematics Teacher**, 1909 **Interpellations, Questions and Replies of the National Assembly** South Africa. Parliament (1994- ). National Assembly, 1997 Sessional Papers Great Britain. Parliament. House of Commons, 1902 **Catalogue, Books and Journals in Advanced Mathematics** American Mathematical Society, 1985 **Leaving certificate examination papers and model answers. English. (French and German).** McDougall's educational co, ltd, 1895 *First, supplementary, and second reports, with minutes of evidence and appendices. 1872 (c.536)* Great Britain. Royal Commission on Scientific Instruction and the Advancement of Science, 1872 **Secondary education, Scotland. Report 1892, 94-1915** Scotch education department, 1896 *Research Memorandum*, 1947 **Research and Development Memorandum** Stanford University Center for Research and Development in Teaching, 1974 **Memorandum**, 1961 **Readings in Artificial Intelligence** Bonnie Lynn Webber, Nils J. Nilsson, 2014-05-12 **Readings in Artificial Intelligence** focuses on the principles methodologies advancements and approaches involved in artificial intelligence The selection first elaborates on representations of problems of reasoning about actions a problem similarity approach to devising heuristics and optimal search strategies for speech understanding control Discussions focus on comparison with existing speech understanding systems empirical comparisons of the different strategies analysis of distance function approximation problem similarity problems of reasoning about action search for solution in the reduction system and relationship between the initial search space and the higher level search space The book then examines consistency in networks of relations non resolution theorem proving using rewriting rules for connection graphs to prove theorems and closed world data bases The manuscript tackles a truth maintenance system elements of a plan based theory of speech acts and reasoning about knowledge and action Topics include problems in reasoning about knowledge integration knowledge and action models of plans compositional adequacy truth maintenance mechanisms dialectical arguments and assumptions and the problem of control The selection is a valuable reference for researchers wanting to explore the field of artificial intelligence Sessional Papers - Legislature of the Province of Ontario Ontario. Legislative Assembly, 1913 The Calendar University of Calcutta, 1927 *Report and Summary of Proceedings* Imperial Agricultural Research Conference, 1928 **Calendar** University of Calcutta, 1929 Includes Examination Papers *Papers*

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