



# basic education

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REPUBLIC OF SOUTH AFRICA

## SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

### MATHEMATICS P1

2021

MARKS: 100

TIME: 1 hour

This question paper consists of 10 pages and 1 information sheet.

01428

986/2021

### QUESTION 1

- 1.1 Solve for  $x$ :  
  - 1.1.1  $x^2 + 3x + 2 = 0$  (5)
  - 1.1.2  $3x^2 + x - 4 = 0$  (Show partial solution in TWO distinct parts) (10)
  - 1.1.3  $x^2 = 49$  (5)
- 1.2 Given  $y = \frac{3x}{x^2 + 2}$ :  
  - 1.2.1 Solve for  $x$  (5)
  - 1.2.2 Hence solve for  $x$ :  $2x^2 + 3x = 4$  (5)
- 1.3 Without using a calculator, calculate the value of  $\sqrt{\frac{36x^2 + 49}{121x^2}}$  (5)
- 1.4 Solve for  $x$  and  $y$  simultaneously:  
 $(x + y + 2) = \frac{1}{x}$  and  $\frac{1}{y} = 4y + 1$  (10)

### QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38.  
 Determine:  
  - 2.1.1  $d$ , the common difference of the sequence (5)
  - 2.1.2 The number of terms in the sequence if the last term of the sequence is 47 (5)
  - 2.1.3 The sum of the first 10 terms in the sequence (5)
- 2.2  $16, 25, 36, 49, \dots$  is a quadratic number pattern.  
  - 2.2.1 Write down the 10th term of the number pattern (5)
  - 2.2.2 Determine the  $n^{\text{th}}$  term of the number pattern (5)
  - 2.2.3 Determine the maximum value of the following number pattern:  
 $-12, -\frac{11}{2}, -5, -\frac{9}{2}, \dots$  (5)

# Grade 12 Mathematics Paper 1 June 2013 Memorandum

**Henry Pettus Randall**



## Grade 12 Mathematics Paper 1 June 2013 Memorandum:

What's Our Problem? Tim Urban, 2023-02-21 From the creator of the wildly popular blog Wait But Why a fun and fascinating deep dive into what the hell is going on in our strange unprecedented modern times Between 2013 and 2016 Tim Urban became one of the world's most popular bloggers writing dozens of viral long form articles about everything from AI to colonizing Mars to procrastination Then he turned his attention to a new topic the society around him Why was everything such a mess Why was everyone acting like such a baby When did things get so tribal Why do humans do this stuff This massive topic sent Tim tumbling down his deepest rabbit hole yet through mountains of history evolutionary psychology political theory neuroscience and modern day political movements as he tried to figure out the answer to a simple question What's our problem Six years later he emerged from the hole holding this book What's Our Problem is a deep and expansive analysis of our modern times in the classic style of Wait But Why packed with original concepts sticky metaphors and 300 drawings The book provides an entirely new framework and language for thinking and talking about today's complex world Instead of focusing on the usual left center right horizontal political axis which is all about what we think the book introduces a vertical axis that explores how we think as individuals and as groups Readers will find themselves on a delightful and fascinating journey that will ultimately change the way they see the world around them Anyway he wanted to say a lot more about all of this but there was a word limit on this book description so just go read the book Medial/Skeletal Linking Structures for Multi-Region Configurations James Damon, Ellen Gasparovic, 2018-01-16 The authors consider a generic configuration of regions consisting of a collection of distinct compact regions in which may be either regions with smooth boundaries disjoint from the others or regions which meet on their piecewise smooth boundaries in a generic way They introduce a skeletal linking structure for the collection of regions which simultaneously captures the regions individual shapes and geometric properties as well as the positional geometry of the collection The linking structure extends in a minimal way the individual skeletal structures on each of the regions This allows the authors to significantly extend the mathematical methods introduced for single regions to the configuration of regions **Mayor Michael Bloomberg** Lynne A. Weikart, 2021-09-15 In Mayor Michael Bloomberg Lynne A. Weikart dives into the mayoralty of Michael Bloomberg offering an incisive analysis of Bloomberg's policies during his 2002-2014 tenure as mayor of New York and highlighting his impact on New York City politics Michael Bloomberg became mayor of New York just four months after the 9/11 terrorist destruction of the World Trade Center and he led the rebuilding of a physically and emotionally devastated city so well that within two years the city had budget surpluses Weikart reveals how state and federal governments constrained Bloomberg's efforts to set municipal policy and implement his strategic goals in the areas of homelessness low income housing poverty education and crime External powers of state and federal governments are strong currents and Bloomberg's navigation of these currents often determined the outcome of his efforts Weikart evaluates Michael Bloomberg's mayoral successes and failures

in the face of various challenges externally the constraints of state government and mandates imposed by federal and state courts and internally the impasse between labor unions and Bloomberg Weikart identifies and explores both the self created restrictions of Mayor Bloomberg s own management style and the courage of Mike Bloomberg s leadership     Integer Programming and Related Areas C. Kastning,2013-11-11 Integer Programing is one of the most fascinating and difficult areas in the field of Mathematical Optimization Due to this fact notable research contributions to Integer Programming have been made in very different branches of mathematics and its applications Since these publications are scattered over many journals proceedings volumes monographs and working papers a comprehensive bibliography of all these sources is a helpful tool even for specialists in this field I initiated this compilation of literature in 1970 at the Institut fur konometrie und Operations Research University of Bonn Since then many collaborators have contributed to and worked on it Among them Dipl Math Claus Kastning has done the bulk of the work With great perseverance and diligence he has gathered all the material and checked it with the original sources The main aim was to incorporate rare and not easily accessible sources like Russian journals preprints or unpublished papers Without the invaluable and dedicated engagement of Claus Kastning the bibliography would never have reached this final version For this reason he must be considered its responsible editor As with any other collection this literature list has a subjective viewpoint and may be in some sense incomplete We have however tried to be as complete as possible The bibliography contains 4704 different publications by 6767 authors which were classified by 11839 descriptor entries     Who's who Among Students in American Universities and Colleges Henry Pettus Randall,1978     Grade 12 Pre-calculus Mathematics Achievement Test, June 2013: pt. 1 . Booklet 1, June 2013 Manitoba. School Programs Division,2013     Grade 12 Essential Mathematics Achievement Test, June 2013: pt. 1 . Student booklet Manitoba. School Programs Division,2013

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