



# basic education

Department  
Basic Education  
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.

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### 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  $y = \frac{3x^2 + 5}{x}$   
  - 1.2.1 Solve for  $x$  (5)
  - 1.2.2 Hence solve for  $x$ :  $2x^2 + 22x = 49$  (5)
- 1.3 Without using a calculator, calculate the value of  $\sqrt{\frac{36x^2 + 25}{121x^2}}$  (5)
- 1.4 Solve for  $x$  and  $y$  simultaneously:  
 $(x + y + 1) = \frac{1}{x}$  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 40 terms in the sequence (5)
- 2.2  $16, 25, 36, 49, \dots$  is a quadratic number pattern.  
  - 2.2.1 Write down the 100th 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:  
 $-12, -\frac{11}{2}, -\frac{9}{2}, -\frac{7}{2}, \dots$  (5)

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The second edition of The Encyclopedia of Middle Grades Education has been revised updated and expanded since its original publication in 2005 The Encyclopedia is a comprehensive overview of the field it contains alphabetically organized entries that address important concepts ideas terms people organizations publications and research studies specifically related to middle grades education This edition contains over 210 entries from nearly 160 expert contributors this is a 25% increase in the number of entries over the first edition The Encyclopedia is aimed at a general audience including undergraduate students in middle level teacher preparation programs graduate students higher education faculty and practitioners and administrators The comprehensive list of entries are comprised of both short entries 500 words and longer entries 2000 words A significant number of entries appearing in the first edition have been revised and updated Citations and references are provided for each entry      **32nd European Symposium on Computer Aided Process Engineering**

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examines the history of the National Assessment of Educational Progress NAEP and outlines plans for improving and modernizing the organization Educational policy analyst Chester E Finn Jr imparts a rare inside analysis of the evolution of the NAEP program at key moments in its history and provides a firsthand perspective of crucial decisions and core goals that have helped shape it The result is a revealing survey of the US s most influential source of data on K 12 achievement Assessing the Nation s Report Card offers readers an in depth understanding and appreciation of NAEP as well as an examination of its shortcomings its controversies and its current issues The book explores why NAEP is considered the gold standard of educational assessments yet is much lesser known than other types of standardized testing Finn underscores the promise of applying the results in addressing achievement gaps boosting federal accountability and driving education reform and policy He also discloses how the data are collected and what the results can and cannot tell us For more than 50 years this ambitious federal testing program has informed the decisions of policy makers and educational leaders as they advocate

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