



# 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  $x$ :  $2x^2 + 22x = 48$  (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 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:  
 $-12, -\frac{1}{2}, \frac{1}{2}, 1, \frac{3}{2}, 2, \dots$  (5)

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**S Ashworth**



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web jun 30 2021 once the load balancer receives a request it determines which server in a pool is available and then routes the request to that server by routing the requests to available servers or servers with lower workloads load balancing takes the pressure off stressed servers and ensures high availability and reliability

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