



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.

01/000

1906/2021

QUESTION 1

1. Solve for  $x$ .
- $x^2 + 3x + 2 = 0$  (10)
  - $2x^2 - 5x + 2 = 0$  (Show partial factorisation) (10)
  - $x^2 = 49$  (10)
2. Given  $y = \frac{2x^2 + 3x}{x^2 + 1}$
- Solve for  $x$  (10)
  - Given  $\sin \theta = x$ ,  $0^\circ < \theta < 90^\circ$  solve for  $x$  (10)
3. Without using a calculator, calculate the value of  $\sqrt{\frac{25}{121} + \frac{16}{121}}$  (10)
4. Solve for  $x$  and  $y$  simultaneously:  
 $(x + y + 2) = \frac{1}{2}$  and  $\frac{1}{x} + \frac{1}{y} = 2$  (10)

QUESTION 2

5. The first term of an arithmetic sequence is 2 and the 10th term is 35.
- Describe:
- $d$  (10) Difference of the sequence
  - The number of terms in the sequence if the last term of the sequence is 47 (10)
  - The sum of the first 10 terms in the sequence (10)
6.  $10, 15, 20, 25, \dots$  is an arithmetic number pattern.
- Write down the 100th term of the number pattern (10)
  - Calculate the  $n^{\text{th}}$  term of the number pattern (10)
  - Calculate the maximum value of the following number pattern:  
 $-10, -\frac{9}{2}, -7, -\frac{5}{2}, -3, \dots$  (10)

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**M Mark**



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