



basic education

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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

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QUESTION 1

1. Solve for x .
- $x^2 + 3x + 2 = 0$ (10)
 - $3x^2 - 11x + 6 = 0$ (Show partial factorisation) (10)
 - $x^2 = 49$ (10)
2. Given $y = \frac{3x^2 + 5}{x}$
- Solve for x (10)
 - Given $x = 2$, solve for y (10)
3. Without using a calculator, calculate the value of $\sqrt{\frac{36x^2 + 25}{121x^2}}$ (10)
4. Solve for x and y simultaneously:
 $3x + y = 1$ and $\frac{1}{x} + \frac{1}{y} = 4$ (10)

QUESTION 2

5. The first term of an arithmetic sequence is 2 and the 17th term is 38.
- Calculate:
- a_{10} (10)
 - 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 sequence.
- Write down the 10th term of the sequence (10)
 - Calculate the n^{th} term of the sequence (10)
 - Calculate the maximum value of the following sequence:
 $-10 + \frac{1}{2}, -9 + \frac{1}{2}, -8 + \frac{1}{2}, \dots$ (10)

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SJ Ball



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