



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

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 2 and the 17th term is 38 (10)
- 2.1.1 Determine (5)
- 2.1.1.1 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 $10, 15, 20, 25, \dots$ is a positive number pattern (10)
- 2.2.1 Write down the 10th term of the number pattern (5)
- 2.2.2 Determine the 10th term of the number pattern (5)
- 2.2.3 Determine the maximum value of the following number pattern (5)
- $-10, -\frac{9}{2}, -7, -\frac{5}{2}, -3, \dots$ (5)

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