



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

SENIOR CERTIFICATE EXAMINATIONS NATIONAL SENIOR CERTIFICATE EXAMINATIONS

MATHEMATICS 501

2015

Time: 120

100% / 100 marks

The question paper consists of 10 pages and 1 information sheet.

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10/10/15

100/1001

QUESTION 1

- 1.1 Solve for x . (2)
- 1.1.1 $x^2 + 4x + 4 = 0$ (2)
- 1.1.2 $x^2 + x - 4 = 0$ (2) (Answer rounded to two decimal places in PPT (Personal Digital Assistant) mode)
- 1.1.3 $x^2 + 4 = 0$ (2)
- 1.2 Given: $y = \frac{2x^2 + 1}{x}$ (2)
- 1.2.1 Solve for x . (2)
- 1.2.2 Solve for x for $x^2 + 2x^2 = 0$. (2)

1.3 Without using a calculator, calculate the value of $\sqrt{\frac{16}{25} \times \frac{9}{16}}$. (2)

1.4 Solve for x and y simultaneously (2)

$3x + y = 11$ and $\frac{1}{2}x + 3y = 1$ (2)

QUESTION 2

- 2.1 The first term of an arithmetic sequence is 10 and the 10th term is 48. (2)
- 2.1.1 Determine the common difference of the sequence. (2)
- 2.1.2 Determine the number of terms in the sequence if the last term of the sequence is 98. (2)
- 2.1.3 Determine the sum of the first 40 terms in the sequence. (2)
- 2.2 The sets A , B and C are represented as follows. (2)
- 2.2.1 Write down the PPT (Personal Digital Assistant) mode of the number pattern. (2)
- 2.2.2 Determine the 10th term of the number pattern. (2)
- 2.2.3 Determine the number of terms of the following number pattern: $1, 4, 9, 16, 25, 36, 49, \dots$ (2)

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Grade 12 Mathematics Paper 1 Common Test

Kathleen Armour



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