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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.

062/062

190/2021

QUESTION 1

1.1 Solve for x .

1.1.1 $x^2 + 3x + 2 = 0$ (5)

1.1.2 $2x^2 - 5x + 2 = 0$ (Solve partially – at least one (1) of the two parts) (5)

1.1.3 $x^2 = 49$ (5)

1.2 Given $y = \frac{2x}{x+1}$

1.2.1 Solve for x (5)

1.2.2 Hence solve for x : $2x + x^2 = 49$ (5)

1.3 Without using a calculator, calculate the value of $\sqrt{\frac{25}{121} + \frac{16}{121}}$ (5)

1.4 Solve for x and y simultaneously:

$(x + y + 1) = \frac{1}{x}$ and $\frac{1}{y} = 4y + 1$ (5)

(10)
(20)

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 $10, 15, 20, 25, \dots$ is an arithmetic sequence.

2.2.1 Write down the 10th term of the arithmetic sequence (5)

2.2.2 Determine the n^{th} term of the arithmetic sequence (5)

2.2.3 Determine the maximum value of the following arithmetic sequence:

$-10, -\frac{9}{2}, -7, -\frac{5}{2}, \dots$ (5)

(10)
(20)

Mathematics Grade12 Exemplar Memorandum Paper1

Yicheng Fang



Mathematics Grade12 Exemplar Memorandum Paper1:

Mathematics Grade12 Exemplar Memorandum Paper1 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mathematics Grade12 Exemplar Memorandum Paper1**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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