



## 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.

062/0

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  $x$ :  $2x^2 + 2x - 3 = 0$  (5)

1.3 Without using a calculator, calculate the value of  $\sqrt{\frac{25}{16} + \frac{9}{4}}$  (5)

1.4 Solve for  $x$  and  $y$  simultaneously:

$2x + y = 1$  and  $\frac{1}{x} + \frac{1}{y} = 2$  (5)

(10)  
(20)

#### QUESTION 2

2.1 The first term of an arithmetic sequence is 2 and the 17<sup>th</sup> term is 34.

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 10<sup>th</sup> term of the arithmetic sequence (5)

2.2.2 Determine the  $n^{\text{th}}$  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)

# Grade 12 June 2014 Maths Paper 1 2 Memo

**SA Dillow**



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