

# GR 12 MATHS - EXAM QUESTION PAPERS

**Q**  
**1**

## NATIONAL NOV 2014 PAPER 1

You may use an approved scientific calculator (non-programmable and non-graphical), unless stated otherwise.

If necessary, round off answers to **TWO** decimal places, unless stated otherwise.

### ► ALGEBRA AND EQUATIONS AND INEQUALITIES [21]

#### QUESTION 1

- 1.1 Solve for  $x$ :
- 1.1.1  $(x + 2)(4 - x) = 0$  (2)
- 1.1.2  $3x^2 - 2x + 14$  (correct to TWO decimal places.) (4)
- 1.1.3  $2^{x+2} + 2^x = 20$  (3)

- 1.2 Solve the following equations simultaneously:
- $$x = 2y + 3$$
- $$3x^2 - 5xy + 24 = 16y$$
- (6)

- 1.3 Solve for  $x$ :  $(x - 1)(x - 2) = 6$  (4)

- 1.4 The roots of a quadratic equation are:  $x = \frac{2 \pm \sqrt{3-4}}{2}$   
For which values of  $k$  are the roots real? (2) [21]

### ► PATTERNS AND SEQUENCES [31]

#### QUESTION 2

Given the arithmetic series:  $2 + 8 + 14 + \dots$  (to 251 terms)

- 2.1 Write down the fourth term of the series. (1)
- 2.2 Calculate the 251<sup>st</sup> term of the series. (3)
- 2.3 Express the series in sigma notation. (2)
- 2.4 Calculate the sum of the series. (2)
- 2.5 How many terms in the series are divisible by 4? (4) [12]

#### QUESTION 3

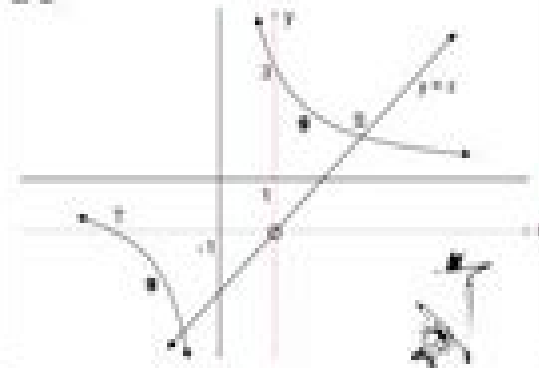
- 3.1 Given the quadratic sequence:  $-1; -7; -11; p; \dots$
- 3.1.1 Write down the value of  $p$ . (2)
- 3.1.2 Determine the  $n^{\text{th}}$  term of the sequence. (6)
- 3.1.3 The first difference between two consecutive terms of the sequence is 16. Calculate the values of these two terms. (4)
- 3.2 The first three terms of a geometric sequence are:  $16; 4; 1$
- 3.2.1 Calculate the value of the 12<sup>th</sup> term. (Leave your answer in simplified exponential form.) (3)
- 3.2.2 Calculate the sum of the first 10 terms of the sequence. (2)
- 3.3 Determine the value of:  
 $\left(1 + \frac{1}{2}\right)\left(1 + \frac{1}{3}\right)\left(1 + \frac{1}{4}\right)\left(1 + \frac{1}{5}\right) \dots$   
 up to 98 factors. (4) [16]

### ► FUNCTIONS AND GRAPHS [33]

#### QUESTION 4

The diagram below shows the hyperbola  $g$  defined by  $g(x) = \frac{2}{x+2} + 4$  with asymptotes  $y = 1$  and  $x = -1$ .

The graph of  $g$  intersects the  $x$ -axis at  $T$  and the  $y$ -axis at  $(0, 2)$ . The line  $y = x$  intersects the hyperbola in the first quadrant at  $S$ .



Q1

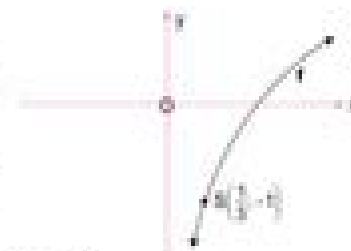
- 4.1 Write down the values of  $p$  and  $q$ . (2)
- 4.2 Calculate the  $x$ -coordinate of  $T$ . (2)
- 4.3 Write down the equation of the vertical asymptote of the graph of  $h$ , if  $h(x) = g(x + 5)$ . (1)
- 4.4 Calculate the length of  $OS$ . (5)
- 4.5 For which values of  $k$  will the equation  $g(x) = x + k$  have two real roots that are of opposite signs? (1) [11]

#### QUESTION 5

Given:

$f(x) = \log_{a+1} x$  where  $a > 0$ .

$S\left(\frac{1}{3}, -1\right)$  is a point on the graph of  $f$ .



- 5.1 Prove that  $a = 2$ . (2)
- 5.2 Write down the equation of  $h$ , the inverse of  $f$ , in the form  $y = \dots$  (2)
- 5.3 If  $g(x) = -f(x)$ , determine the equation of  $g$ . (1)
- 5.4 Write down the domain of  $g$ . (1)
- 5.5 Determine the values of  $x$  for which  $f(x) > -3$ . (2) [6]



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