

# GRADE 12 MATHEMATICS NOVEMBER EXAMINATION PAPER 1

#### QUESTION 1

#### 1.1 Solve for a

1.1.1 
$$x^2 - 9x + 20 = 0$$
 (3)

1.12 
$$x(x+3)-1=0$$
 (correct to 2 decimal points) (3)

1.13 
$$x^2 + 7x < 0$$
 (3)

#### 1.2 Solve simultaneously for a and y if.

$$2x - y = 8$$
, and  
 $x^2 - xy + y^2 = 29$ 

[24]

#### QUESTION 2

Million.

2.1 The terms p: (2p + 2): (5p + 3) form an arithmetic sequence.

#### Determine:

- 2.1.1 The value of p.
- 2.1.2 The rule in the form of  $a_n = a + (n-1)d$ .
- 2.1.3 The 15th term of the sequence.
- 2.2 z. y. 81 is a peometric sequence. And y = 2x - 5

All terms in the sequences are intecers.

Calculate the values of x and y.

Wattematica

#### QUESTION 3

Given the sequence 2. 6: 10: 14: ....

- 3.1 What type of sequence is this? Justify your answer by calculation.
- 3.2 Calculate T.,
- 3.3 Which term has a value of 322?
- 3.4 Determine by palculation if 1294 is a term in the sequence? PGB.

#### QUESTION 4

The sketch below shows the graph of  $f(x) = \frac{-1}{x-x} + q$ . The asymptotes of f intersects at B(-1,y). The Point  $D\left(S;4\frac{y}{z}\right)$  is a point on the graph.



- 4.1 Determine the value of p. 170
- 42 Proof that a = 5.
- 4.3 Calculate the x-intercept of f.
  - Determine the equation of the vertical asymptote of h if high at fig + 4).
- 4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry min.
- 4.6 Give the values a for f(x) ≥ x + 6. (2)
- 4.7 Determine the equation of g, the reflection of f in the x-axis and move two units to the right.

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