

QUESTION 2

2.1 The following is an arithmetic sequence:

$$1 - p; 2p - 3; p + 5; \dots$$

2.1.1 Calculate the value of p . (2)

2.1.2 Write down the value of:

(a) The first term of the sequence (1)

(b) The common difference (1)

2.1.3 Explain why NONE of the numbers in this arithmetic sequence are perfect squares. (2)

2.2 The following sequence of numbers forms a quadratic sequence:

$$-3; -2; -3; -6; -11; \dots$$

2.2.1 The FIRST differences of the above sequence also form a sequence. Determine an expression for the general term of the first differences. (3)

2.2.2 Calculate the first difference between the 35th and 36th terms of the quadratic sequence. (1)

2.2.3 Determine an expression for the n^{th} term of the quadratic sequence. (4)

Gauteng Preparatory Exam 2014 Mathematics Paper 2

Jin-Ying Zhang



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



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