

IGCSE – Sequences and nth term – 3

Oct 01 Paper 4

- 9 (a) Write down the next two terms in the sequence

7, 10, 15, 22,

[2]

- (b) Write down the next term and the 50th term in the sequence

$\frac{2}{5}, \frac{3}{7}, \frac{4}{9}, \frac{5}{11}, \dots$

[3]

- (c) Write down the next two terms and find an expression for the n th term in the sequence

17, 13, 9, 5,

[4]

Oct 02 Paper 4

- 9 (a) Write down the 10th term and the n th term of the following sequences.

(i) 1, 2, 3, 4, 5 ..., ...

[1]

(ii) 7, 8, 9, 10, 11 ..., ...

[1]

(iii) 8, 10, 12, 14, 16 ..., ...

[3]

- (b) Consider the sequence

$1(8 - 7), 2(10 - 8), 3(12 - 9), 4(14 - 10), \dots, \dots$

- (i) Write down the next term and the 10th term of this sequence in the form $a(b - c)$ where a, b and c are integers. [3]

- (ii) Write down the n th term in the form $a(b - c)$ and then simplify your answer. [2]

Oct 03 Paper 2

- 3 The first five terms of a sequence are 4, 9, 16, 25, 36, ...
Find

- (a) the 10th term,

Answer (a)..... [1]

- (b) the n th term.

Answer (b)..... [1]

Oct 05 Paper 2

- 4 Write down the next term in each of the following sequences.

(a) 8.2, 6.2, 4.2, 2.2, 0.2, ...

Answer(a) [1]

(b) 1, 3, 6, 10, 15, ...

Answer(b) [1]