

AQA, OCR, Edexcel

GCSE

GCSE Maths

Sequences and Finding the nth
term Answers

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Total Marks:

Sequences / nth term

1. Consider the following sequence 4, 6, 8, 10, ...
 - a. Calculate the 5th and 6th number of the sequence. 12, 14
 - b. Give the nth term for this sequence. $2(n + 1)$

(5 Marks)

2. Find the nth term of the following sequence and hence find the 10th term of the sequence.

-3, 0, 3, 6 $3n - 6$, 10th term = 24

(3 Marks)

3. Find the nth term of the following sequence and hence find the 100th term of the sequence.

1, 8, 15, 22 $7n - 6$, 100th term = 694

(3 Marks)

4. Find the nth term of the following sequence and hence find the 10th term of the sequence.

4, 10, 20, 34 $2n^2 + 2$, 10th term = 202

(4 Marks)

5. Find the nth term of the following sequence and hence find the 15th term of the sequence.

-2, 7, 22, 43 $3n^2 - 5$ 15th term = 670

(4 Marks)

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6. Find the n th for the following sequences (Hard)

a. 14, 33, 58, 89, 126 $3n^2 + 10n + 1$

b. 3, 17, 35, 57, 83 $2n^2 + 8n - 7$

c. 13, 23, 35, 49, 65 $n^2 + 7n + 5$

d. 6, 20, 42, 72, 110 $4n^2 + 2n$

(8 Marks)