



Generating Sequences



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1 The n th term of a sequence is $5n + 3$

(a) Work out the 3rd term of the sequence

.....
(1)

(b) Work out the 5th term of the sequence

.....
(1)

(c) Work out the 9th term of the sequence

(d) Work out the 12th term of the sequence

.....
(1)

.....
(1)

(Total for Question 1 is 4 marks)



2 The n th term of a sequence is $3n - 2$



(a) Work out the 2nd term of the sequence

(b) Work out the 8th term of the sequence

.....
(1)

.....
(1)

(Total for Question 2 is 2 marks)

3 The n th term of a sequence is $2n - 10$



(a) Work out the 1st term of the sequence

(b) Work out the 9th term of the sequence

.....
(1)

.....
(1)

(Total for Question 3 is 2 marks)



4 The n th term of a sequence is $4n + 11$



(a) Work out the 5th term of the sequence

(b) Work out the 10th term of the sequence

.....
(1)

.....
(1)

(Total for Question 4 is 2 marks)

5 The n th term of a sequence is $10n - 3$



(a) Work out the 8th term of the sequence

(b) Work out the 20th term of the sequence

.....
(1)

.....
(1)

(Total for Question 5 is 2 marks)



6 The n th term of a sequence is $20 - 3n$



(a) Work out the 1st term of the sequence

(b) Work out the 7th term of the sequence

.....
(1)

.....
(1)

(Total for Question 6 is 2 marks)

7 The n th term of a sequence is $8 - n$



(a) Work out the 5th term of the sequence

(b) Work out the 12th term of the sequence

.....
(1)

.....
(1)

(Total for Question 7 is 2 marks)



8 The n th term of a sequence is $n^2 + 3$



(a) Work out the 3rd term of the sequence

(b) Work out the 4th term of the sequence

.....
(1)

.....
(1)

(Total for Question 8 is 2 marks)

9 The n th term of a sequence is $n^2 - 30$



(a) Work out the 5th term of the sequence

(b) Work out the 8th term of the sequence

.....
(1)

.....
(1)

(Total for Question 9 is 2 marks)



10 The n th term of a sequence is $2n^2$



(a) Work out the 3rd term of the sequence

(b) Work out the 5th term of the sequence

.....
(1)

.....
(1)

(Total for Question 10 is 2 marks)

11 The n th term of a sequence is $n^2 - 2n$



(a) Work out the 3rd term of the sequence

(b) Work out the 4th term of the sequence

.....
(2)

.....
(2)

(Total for Question 11 is 4 marks)



12 The n th term of a sequence is $7n - 1$
Work out the first term in the sequence that is greater than 50



.....
(Total for Question 12 is 2 marks)

13 The n th term of a sequence is $9n + 20$
Work out the first term in the sequence that is greater than 100



.....
(Total for Question 13 is 2 marks)

14 The n th term of a sequence is $15 - 4n$
Work out the first term in the sequence that is negative.



.....
(Total for Question 14 is 2 marks)



15 The n th term of a sequence is $3n - 13$
Work out the first term in the sequence that is positive.



.....
(Total for Question 15 is 2 marks)

16 The n th term of a sequence **A** is $3n + 8$
The n th term of a sequence **B** is $n^2 + k$



The 5th term of sequence **A** is equal to the 4th term of sequence **B**.

Work out the value of k .

$k =$
(Total for Question 16 is 3 marks)

