n^{th} term of Linear Sequences

SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

1 The first four terms of an arithmetic sequence are

3 6 9 12 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 1 is 2 marks)

2 The first four terms of an arithmetic sequence are

6 8 10 12 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 2 is 2 marks)

3 The first four terms of an arithmetic sequence are

2 5 8 11 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 3 is 2 marks)

© 2024 1stclassmaths

4 The first four terms of an arithmetic sequence are

9 13 17 21 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 4 is 2 marks)

5 The first four terms of an arithmetic sequence are

7 8 9 10 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 5 is 2 marks)

6 The first four terms of an arithmetic sequence are

2 7 12 17 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 6 is 2 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions

7 The first four terms of an arithmetic sequence are

50 56 62 68 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 7 is 2 marks)

8 The first four terms of an arithmetic sequence are

–3 7 17 27 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 8 is 2 marks)

9 The first four terms of an arithmetic sequence are

4 4.5 5 5.5 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 9 is 2 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions

10 The first four terms of an arithmetic sequence are

9 7 5 3 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 10 is 2 marks)

11 The first four terms of an arithmetic sequence are

15 11 7 3 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 11 is 2 marks)

12 The first four terms of an arithmetic sequence are

9 4 –1 –6 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 12 is 2 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions

13 The first four terms of an arithmetic sequence are

1 –8 –17 –26 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 13 is 2 marks)

14 The first four terms of an arithmetic sequence are

100 89 78 67 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 14 is 2 marks)

15 The first four terms of an arithmetic sequence are

6 5.8 5.6 5.4 …

Write down an expression, in terms of n, for the nth term of the sequence.

.....

(Total for Question 15 is 2 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions

16 The first five terms of an arithmetic sequence are

6 11 16 21 26 …

Work out the 20th term of the sequence.

.....

(Total for Question 16 is 3 marks)

17 The first five terms of an arithmetic sequence are

1 7 13 19 25 …

Work out the 50th term of the sequence.

.....

(Total for Question 17 is 3 marks)

18 The first five terms of an arithmetic sequence are

2 6 10 14 18 …

Work out the 100th term of the sequence.

.....

(Total for Question 18 is 3 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions

19 The first five terms of an arithmetic sequence are

4 7 10 13 16 …

Is the number 91 in the sequence?
You must show how you get your answer.

(Total for Question 19 is 3 marks)

20 The first five terms of an arithmetic sequence are

3 7 11 15 19 …

Is the number 201 in the sequence?
You must show how you get your answer.

(Total for Question 20 is 3 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions

21 The first five terms of an arithmetic sequence are

7 13 19 25 31 …

Is the number 124 in the sequence?
You must show how you get your answer.

(Total for Question 21 is 3 marks)

22 The first five terms of an arithmetic sequence are

50 47 44 41 38 …

Is the number –10 in the sequence?
You must show how you get your answer.

(Total for Question 22 is 3 marks)

www.1stclassmaths.com © 2024 1stclassmaths Solutions