PRINCE EDWARD ISLAND PRE-CALCULUS 11 · UNIT A

Sequences and Series — Practice Test

Prince Edward Island Pre-Calculus 11 • 25 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A geometric sequence starts with 2 and has common ratio 2. What is term number 5 of the sequence**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A geometric series starts with 1, has common ratio 2, and has 6 terms. What is the sum of the series**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An arithmetic sequence starts with 3 and has common difference 4. What is term number 5 of the sequence**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An arithmetic series starts with 4, has common difference 3, and has 10 terms. What is the sum of the series**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A geometric sequence has a constant**

A difference between terms

B ratio between terms

C sum of terms

D square of terms

Understand It with Pulse | Flag a mistake

6 **A recursive formula for a sequence gives each term in terms of**

A future terms

B the sum only

C previous terms

D the ratio only

Understand It with Pulse | Flag a mistake

7 **A series is the**

A list of terms only

B sum of the terms of a sequence

C difference of terms

D product of terms

Understand It with Pulse | Flag a mistake

8 **An arithmetic sequence has a constant**

- A difference between terms
- B ratio between terms
- C sum of terms
- D product of terms

Understand It with Pulse | Flag a mistake

9 **An infinite geometric series converges when the absolute value of the ratio is**

- A greater than 1
- B less than 1
- C equal to 1
- D equal to 0

Understand It with Pulse | Flag a mistake

10 If a geometric sequence has first term 4 and ratio 2, its third term is

- A 8
- B 12
- C 32
- D 16

Understand It with Pulse | Flag a mistake

11 If an arithmetic sequence has first term 1 and difference 5, its fourth term is

- A 16
- B 11
- C 15
- D 21

Understand It with Pulse | Flag a mistake

12 **Sigma notation is used to write a**

A product

B sequence

C difference

D sum

Understand It with Pulse | Flag a mistake

13 **The common difference of 10, 7, 4, 1 is**

A 3

B -7

C -3

D 7

Understand It with Pulse | Flag a mistake

14 The common ratio of 5, 15, 45, 135 is

A 5

B 10

C 2

D 3

Understand It with Pulse | Flag a mistake

15 The difference between consecutive terms of 30, 26, 22, 18 is

A 4

B -8

C 8

D -4

Understand It with Pulse | Flag a mistake

16 **The fifth term of the sequence with term formula 2n plus 1 is**

A 9

B 10

C 11

D 12

Understand It with Pulse | Flag a mistake

17 **The first term of an arithmetic sequence with term formula 3n + 2 , for n = 1 , is**

A 3

B 5

C 2

D 8

Understand It with Pulse | Flag a mistake

18 **A geometric sequence starts with 3 and has common ratio 2. What is term number 4 of the sequence**

ANSWER

Understand It with Pulse | Flag a mistake

19 **A geometric series starts with 2, has common ratio 2, and has 5 terms. What is the sum of the series**

ANSWER

Understand It with Pulse | Flag a mistake

20 **An arithmetic sequence starts with 5 and has common difference 3. What is term number 6 of the sequence**

ANSWER

Understand It with Pulse | Flag a mistake

21 **An arithmetic series starts with 6, has common difference 2, and has 12 terms. What is the sum of the series**

ANSWER

Understand It with Pulse | Flag a mistake

22 **A geometric sequence starts with 1 and has common ratio 3. What is term number 4 of the sequence**

ANSWER

Understand It with Pulse | Flag a mistake

23 **A geometric series starts with 3, has common ratio 2, and has 4 terms. What is the sum of the series**

ANSWER

Understand It with Pulse | Flag a mistake

24 **An arithmetic sequence starts with 2 and has common difference 5. What is term number 4 of the sequence**

ANSWER

Understand It with Pulse | Flag a mistake

25 **An arithmetic series starts with 5, has common difference 4, and has 8 terms. What is the sum of the series**

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 32
2. 63
3. 19
4. 175
5. B
6. C
7. B
8. A
9. B
10. D
11. A
12. D
13. C
14. D
15. D
16. C
17. B
18. 24
19. 62
20. 20
21. 204
22. 27
23. 45
24. 17
25. 152

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