ARITHMETIC AND GEOMETRIC SEQUENCES AND SERIES - PRACTICE TEST | NEW BRUNSWICK PRE-CALCULUS B 120 · UNIT A · 25 QUESTIONS

Arithmetic and Geometric Sequences and Series — Practice Test

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 **An arithmetic sequence starts with 2 and has common difference 3. Its 5th term is**

- A 14
- B 11
- C 17
- D 15

Understand It with Pulse | Flag a mistake

2 **A geometric sequence starts with 2 and has common ratio 2. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A geometric sequence starts with 2 and has common ratio 2. The sum of the first 5 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An arithmetic sequence starts with 2 and has common difference 3. The sum of the first 10 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **An infinite geometric series starts with 100 and has common ratio 0.5. Its sum is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **An arithmetic sequence starts with 5 and has common difference 2. Its 5th term is**

- A 11
- B 13
- C 15
- D 14

Understand It with Pulse | Flag a mistake

7 **A geometric sequence starts with 3 and has common ratio 3. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **A geometric sequence starts with 3 and has common ratio 3. The sum of the first 4 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **An arithmetic sequence starts with 5 and has common difference 2. The sum of the first 8 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **An arithmetic sequence starts with 10 and has common difference -2. Its 10th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A geometric sequence starts with 5 and has common ratio 2. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A geometric sequence starts with 5 and has common ratio 2. The sum of the first 6 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **An arithmetic sequence starts with 10 and has common difference -2. The sum of the first 6 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **An arithmetic sequence starts with 3 and has common difference 5. Its 10th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A geometric sequence starts with 1 and has common ratio 3. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **A geometric sequence starts with 1 and has common ratio 3. The sum of the first 5 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

17 **An arithmetic sequence starts with 3 and has common difference 5. The sum of the first 12 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **An arithmetic sequence starts with 1 and has common difference 4. Its 10th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **A geometric sequence starts with 4 and has common ratio 2. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

20 **A geometric sequence starts with 4 and has common ratio 2. The sum of the first 4 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

21 **An arithmetic sequence starts with 1 and has common difference 4. The sum of the first 9 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **An arithmetic sequence starts with 7 and has common difference 3. Its 10th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **A geometric sequence starts with 2 and has common ratio 4. Its 6th term is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **A geometric sequence starts with 2 and has common ratio 4. The sum of the first 3 terms is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25

An arithmetic sequence starts with 4 and has common difference -3. Its 10th term is

ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. A
2. 64
3. 62
4. 155
5. 200
6. B
7. 729
8. 120
9. 96
10. -8
11. 160
12. 315
13. 30
14. 48
15. 243
16. 121
17. 366
18. 37
19. 128
20. 60
21. 153
22. 34
23. 2048
24. 42
25. -23

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