CALIFORNIA PRECALCULUS · UNIT 4 · 10 QUESTIONS

# Sequences, Series, and Limits — 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** **The sum of the first 3 terms of 3, 6, 12, … is**

- A 21
- B 24
- C 15
- D 18

Understand It with Pulse | Flag a mistake

**2** **The sum of the infinite geometric series 8 + 4 + 2 + cdots is**

- A 16
- B 8
- C 12
- D 24

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**3** For $a_1 = 3$ and $a_{n+1} = a_n + 4$, the term $a_3$ is

- A 10
- B 11
- C 7
- D 15

Understand It with Pulse | Flag a mistake

**4** $\lim_{x \to 5} x^2 - 25/x - 5$ is

- A 0
- B 5
- C 25
- D 10

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5 **The sum of the first 4 terms of 2, 4, 8, 16 is**

ANSWER _____

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6 **The sum of the infinite geometric series 1 + 1/2 + 1/4 + cdots is**

A 2

B 1

C $\frac{3}{2}$

D 4

Understand It with Pulse | Flag a mistake

**7** **Which geometric series converges?**

- A ratio 1
- B ratio 3
- C ratio -2
- D ratio $\frac{1}{3}$

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**8** **The sum of the first 3 terms of 4, 8, 16, … is**

- A 24
- B 20
- C 32
- D 28

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**9** **The sum of the infinite geometric series 12 + 6 + 3 + cdots is**

- A 24
- B 21
- C 18
- D 36

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**10** **The sum of the first 3 terms of 4, 9, 14, … is**

- A 31
- B 18
- C 23
- D 27

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | A | **5.** | 30 | **9.** | A |
| **2.** | A | **6.** | A | **10.** | D |
| **3.** | B | **7.** | D | | |
| **4.** | D | **8.** | D | | |

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