ALASKA PRECALCULUS · UNIT 4 · 5 QUESTIONS

Limits, 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 Find $\lim_{x \to 5} x^2 - 25 x - 5$.

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

Understand It with Pulse | Flag a mistake

2 Find $\lim_{x \to \infty} \frac{4x^2}{x^2 + 1}$.

- A 0
- B 4
- C 1
- D ∞

Understand It with Pulse | Flag a mistake

3 The limit $\lim_{x \to -3} (x + 7)$ is

- A 10
- B -10
- C 4
- D 3

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4 An arithmetic sequence has $a_1 = 10$ and common difference -3. The term a_7 is

- A -11
- B 31
- C -8
- D 28

Understand It with Pulse | Flag a mistake

5 **A geometric sequence has $a_1 = 81$ and common ratio $\frac{1}{3}$. The term a_4 is**

A 27

B 9

C 1

D 3

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ANSWER KEY

1. A
2. B
3. C
4. C
5. D

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