CONNECTICUT 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 **The sequence $1, \frac{1}{2}, \frac{1}{4}, \frac{1}{8}$, and so on, converges to**

- A 1
- B 0
- C 2
- D infinity

Understand It with Pulse | Flag a mistake

2 **The sequence 1, 2, 3, 4, and so on, diverges because its terms**

- A approach 0
- B approach 1
- C grow without bound
- D repeat

Understand It with Pulse | Flag a mistake

3 **An arithmetic series sum uses the**

A middle term only

B ratio only

C difference only

D first and last terms

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4 **A geometric series with ratio between -1 and 1**

A converges

B diverges

C oscillates without limit

D is undefined

Understand It with Pulse | Flag a mistake

5 **The limit of a constant function is the**

A variable

B constant itself

C slope

D derivative

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ANSWER KEY

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

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