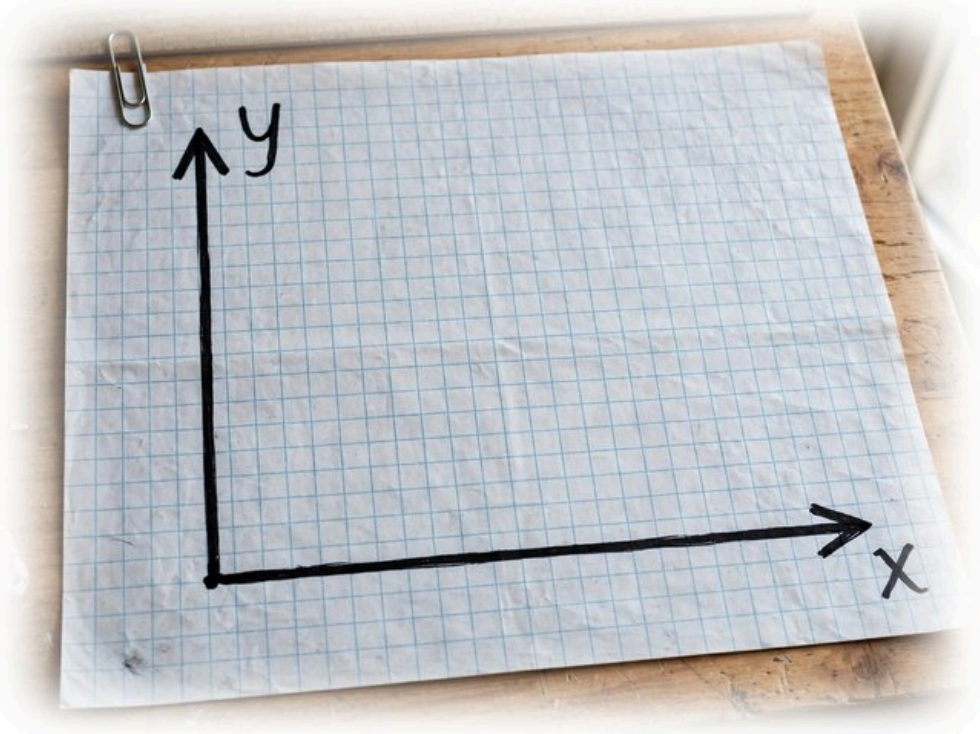
ILLINOIS PRECALCULUS · UNIT 4 · 5 QUESTIONS

# 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** **A coordinate grid shows x and y axes. The limit lim x → 5 (x² - 4) is**




A 21

B 25

C 20

D 29

Understand It with Pulse

Flag a mistake

**2** Find $\lim_{x \to 1} \frac{x^2 - 1}{x - 1}$.

- **A** 0
- **B** 1
- **C** 2
- **D** 3

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**3** Find $\lim_{x \to \infty} \frac{5}{x^2}$.

- **A** 5
- **B** 1
- **C** $\infty$
- **D** 0

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**4** Find $\lim_{x \to \infty} \frac{2x + 1}{x + 3}$.

- **A** 0
- **B** 1
- **C** 2
- **D** 3

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**5** For $a_n = 4n - 3$, the seventh term is

- **A** 21
- **B** 25
- **C** 28
- **D** 31

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## ANSWER KEY

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

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