



Question

Given that $\lim_{n \rightarrow \infty} |a_n| = 3$, which of the following statements must be false?

- A. $\lim_{n \rightarrow \infty} a_n = 3$
- B. $\lim_{n \rightarrow \infty} a_n$ diverges due to oscillation.
- C. $\lim_{n \rightarrow \infty} a_n$ diverges to ∞ .
- D. $\lim_{n \rightarrow \infty} \frac{a_n}{n}$ converges.