

Quiz 10 MTH 427/527 Fall 2024

Thursday, November 7, 2024

8:05 AM

Prove that for constant sequence $a_n = c$, $\lim_{n \rightarrow \infty} a_n = c$.

Proof: Let $\epsilon > 0$ and choose any N . Let $n > N$ and compute

$$|a_n - c| = |c - c| = 0 < \epsilon,$$

completing the proof. \blacksquare