

Name:

Warm-up #6

Let a, b be real numbers satisfying $a \leq b$. Construct a sequence s_n such that

- (a) $s_n \notin [a, b]$ for each $n = 1, 2, 3, \dots$,
- (b) $\liminf_{n \rightarrow \infty} s_n = a$, and
- (c) $\limsup_{n \rightarrow \infty} s_n = b$.