Math 131
Warm-up 19

Name:

Let $\{x_n\}$ be a bounded sequence of reals, and let $p = \limsup(x_n)$. Suppose that $\{x_{n_k}\}$ is a subsequence of $\{x_n\}$ which converges to some $b \in \mathbb{R}$. Prove that $b \leq p$.