Math 131 Warm-up 24

Name:

Consider the rationals with the usual metric. Let $a, b \in \mathbb{Q}$ such that a < b. Let $[a, b]_{\mathbb{Q}} = \{x \in \mathbb{Q} | a \le x \le b\}$. Determine whether or not $[a, b]_{\mathbb{Q}}$ is compact. Prove your conclusion.