

Name:

Warm-up #15

Let $f : [0, 1] \rightarrow \mathbb{R}$ be the function defined by

$$f(x) = \begin{cases} x & x \text{ is rational} \\ 0 & \text{otherwise} \end{cases}.$$

Show that $U(f) = 1/2$ and $L(f) = 0$.