

Exercises

E12.2 [13M] Vice versa, given $f : \mathbb{R} \rightarrow \mathbb{R} \cup \{+\infty\}$ l.s.c., there exists an increasing sequence of continuous functions $f_n : \mathbb{R} \rightarrow \mathbb{R}$ such that $f_n(x) \rightarrow_n f(x)$.

Solution 1. [13N]