

Exercises

E8.vi.4 [OK5] Prerequisites: [06V]. Let J be a directed but non-filtering set; then let $m \in J$ be its maximum (which exists as seen in [06V]); if we define $\lim_{j \in J} \varphi(x)$ as in [OK4], show that the limit always exists and it is $\varphi(m)$.