Exercises

E7.52 [22Y] Prerequisites: [06M], [06X], [0FR], [21J], [234]. Suppose $H \subseteq J$ is *cofinal* and let $h = f_{|H}$ be the subnet (as defined in [230]);

Suppose that $\lim_{j\in J} f(j) = l \in \overline{\mathbb{R}}$ show that $\lim_{j\in H} h(j) = l$.

Similarly if $(H, \leq_H)$ is cofinal in $(J, \leq)$ by means of a map $i : H \to J$, and $h = f \circ i$.