Exercises

E8.70 [2B7]Prerequisites:[06P],[230].Difficulty:**.

Let (Y, σ) be a Hausdorff topological space. Let J be a filtering set and $x : J \to Y$ be a net in Y. For every $\alpha \in J$ define $E_\alpha \overset{\text{def}}{=} \{x_\beta : \beta \in J, \beta \geq \alpha\}$ and

$$E = \bigcap_{\alpha \in J} \overline{E_\alpha}$$

Prove that E coincides with the set L of limit points (defined in [2B4]).

Solution 1. *[2FK]*