

## Exercises

8.61 [OK7] Let  $(Y, \sigma)$  be a Hausdorff topological space and  $A \subseteq Y$ . Show that  $x \in Y$  is an accumulation point for  $A$  if and only if there is a  $J$  filtering set and there is a net  $\varphi : J \rightarrow A \setminus \{x\}$  such that  $\lim_{j \in J} \varphi(j) = x$ .