

## Exercises

E8.82 [OKQ] Prerequisites: [OKM]. Let  $\mathcal{B}$  be a base for a topology  $\tau$  on  $X$ . Show that, given  $x \in X$ ,

$$\{B \in \mathcal{B} : x \in B\}$$

is a fundamental system of neighbourhoods for  $x$ . [OKR]