Exercises

E8.91 [OM7] Prerequisites:[OKM] .Given X, given a base $\mathcal{C}$ for a topology σ on X, and a base $\mathcal{B}$ for a topology β on X, we have that $\sigma \supseteq \beta$ if and only if for every $x \in X$ and for every $B \in \mathcal{B}, B \ni x$ there exists $C \in \mathcal{C}, C \ni x, C \subseteq B$.

Solution 1. *[OM8]*