Exercises

E18.22 `[1K2]`Prerequisites:`[1HR]`,`[0VC]`, `[1JG]`.`[3]`.Difficulty:*.

Let now $I \subseteq \mathbb{R}$ be a closed and bounded interval. Let $f_n : I \to \mathbb{R}$ continuous functions, and suppose that the sequence (f_n) is equicontinuous and bounded (i.e. $\sup_n \|f_n\|_\infty < \infty$). Show that there is a subsequence f_{n_k} that converges uniformly.

Solution 1. `[1K3]`