

# Exercises

E18.11 [1JN] Prerequisites: [1HR], [1J3] subpoint [6]. Difficulty: \*.

If  $f_n, f : I \rightarrow \mathbb{R}$  are uniformly continuous on a set  $I \subset \mathbb{R}$ , and  $f_n \rightarrow_n f$  uniformly on  $I$ , then  $f$  is uniformly continuous, and the family  $(f_n)_n$  is equicontinuous.

**Solution 1.** [1JP]