## E11.21 [OZB] Let $a_n$ be an infinitesimal decreasing positive sequence. Let

Exercises

 $K \subseteq \mathbb{R}$  given by

Solution 1. [ozc]

note that it is compact. Study the dimension of *K* in these cases:

 $K = \{0\} \cup \{a_n : n \in \mathbb{N}, n \ge 1\};$ 

• 
$$a_n = n^{-\theta}$$
 with  $\theta > 0$ ;

• 
$$a_n = \theta^{-n}$$
 with  $\theta > 1$ .