

## Exercises

E14.6 [172] If  $A \subset \mathbb{R}^n$  is convex,  $x \in A^\circ$  and  $y \in A$  then the segment that links them is contained in  $A^\circ$ , except possibly for the extreme  $y$ , that is,  $\forall t \in (0, 1), tx + (1 - t)y \in A^\circ$ .

**Solution 1.** [173]