

## Exercises

14.13 [17R] Prerequisites: [17J]. If  $A \subset \mathbb{R}^n$  is convex,  $x \in A^\circ$  and  $y \in \partial A$ , then the straight line that connects them, continuing over  $y$ , stays out of  $\bar{A}$  (i.e.  $\forall t > 1, ty + (1 - t)x \notin \bar{A}$ ).

**Solution 1.** [17S]