Exercises

E14.14 [17B] Prerequisites:[0GJ].Difficulty:*.

Given $A \subset \mathbb{R}^n$ convex, show that $A° = \left(\overline{A}\right)°$ (the inner part of the closure of A).

Using [17J] it is easily shown that $A° \supseteq \left(\overline{A}\right)°$; unfortunately this result is useful in one of the possible proofs of [17J] (!); an alternative proof uses simplexes as neighbourhoods, cf [16Z].

Solution 1. [17C]