

# Exercises

E8.5 [OGD] Note that  $A \supseteq A^\circ$  and  $B \subseteq \bar{B}$ , generally. Show that  $A$  is open if and only if  $A = A^\circ$ ; and that  $B$  is closed if and only if  $B = \bar{B}$ , using definitions [OG6] and [OG7].