**Remark 6.45.** FORNINOTE that if you replace  $f \mapsto -f$ ,  $l \mapsto -l$ , you pass from the definitions of  $\limsup$  to those of  $\liminf$  (and vice versa). Another symmetry is achieved by switching  $x_0 \to -x_0$  and right and left neiahbourhoods/limits.