

# Exercises

3.81 [06J] (*Proposed on 2022-12*) Let  $X$  be a non-empty set and  $R \subseteq X^2$  an order relation, then there is a total order  $T$  that extends  $R$  (i.e.  $R \subseteq T$ , considering relations as subsets of  $X^2$ ).