

## Exercises

3.137 [21Y] Prerequisites: [071], [07V]. Let  $(X_1, \leq_1)$ ,  $(X_2, \leq_2)$  be two disjoint and partially ordered sets and with the same order type. Let  $I = \{1, 2\}$  with the usual order; let  $Z = I \times X_1$  equipped with lexicographical order; Let  $W$  be the concatenation of  $X_1$  with  $X_2$ : show that  $Z$  and  $W$  have the same type of order.

**Solution 1.** [221]