

## Exercises

E3.49 [248] (Solved on 2022-10-25) Given a set  $X$  and  $I$ ,  $C_i$  as in [1W1] and [1Y2], show that

$$X \setminus \left( \bigcap_{i \in I} C_i \right) = \bigcup_{i \in I} (X \setminus C_i) \quad . \quad (3.49)$$

What happens when  $I$  is the empty set?

**Solution 1.** [24B]