Exercises

- E3.55 [23w] The notation in [026] differs from the usual one, which is $\bigcup_{i \in I} C_i$, where *I* is a non-empty family of indices and C_i are sets; as seen in [1Y2].
 - How can you define $\bigcup_{i \in I} C_i$ using the axiom of union presented [026]? (Sugg. re-read the note [01M])

Eventually you should obtain

$$\forall x, x \in \bigcup_{i \in I} C_i \iff \exists i \in I, x \in C_i \quad . \tag{3.56}$$

Solution 1. [027]