

Exercises

3.271 [055] Prerequisites: [038], [04Z]. (Solved on 2023-01-24) Let X be an infinite set, let \sim be an equivalence relation on X , let $U = X / \sim$ be the equivalence classes.

- Suppose each class is finite, show that $|U| = |X|$.
- Suppose U is infinite and every class has cardinality at most $|U|$, then $|U| = |X|$.

Solution 1. [056]