Universal Algebra 1 - Homework 2

Deadline 16.11.2021, 17:20

- 1. Determine all the subalgebras and congruences of $(\mathbb{N}, *)$ where $x * y = \max(x, y) + 1$. Draw the lattices Sub and Con. (\mathbb{N} consists of the natural numbers without 0.)
- 2. Let \mathbf{G} be a group. Prove that there is a lattice isomorphism between the lattice of normal subgroups of \mathbf{G} and the lattice of congruences of \mathbf{G} .