## 1st Homework sheet Model Theory

- Deadline: 13 February, 13:00 sharp.
- Submit your solutions by handing them to the lecturer or the teaching assistant at the *beginning of the lecture*.
- Good luck!

**Exercise 1** (100 points) Let L be signature and M and N be two L-structures. Show that if M is finite and M and N are elementarily equivalent, then M and N are isomorphic.

*Hint:* You may find it helpful to first think about the special case where the language L is finite.