- \bullet Write only your student number (<u>not your name</u>) on every page you hand in, to enable anonymous grading.
- Please staple pages together.
- Please write your tutorial group on the first page.

Homework exercise 2

- 1. Using truth tables, determine whether the inference $((p \supset q) \supset p) \models p$ is valid in:
 - (a) K_3
 - (b) L_3
 - (c) RM_3

Write down the whole truth tables and explain your answers.

2. The context of this part of the exercise is the system LP. Prove for all interpretations v and all formulas A, if v(A) = i, then there is a propositional parameter p occurring in A such that v(p) = i. (Hint: use induction.)