

The exercises consist of exercise for *Computational Logic* (*CL* for short) and *Automated Theorem Proving* (*ATP* for short). The exercises for *CL* can be found in Fitting's book. The exercises for *ATP* can be found in the lecture notes. Only marked exercises will be discussed.

- 8.14.4 (*CL*)
- Consider the following clause set and show unsatisfiability using superposition. (*ATP*)

$$\mathcal{C} = \{c \neq d, b = d, a \neq d \vee a = c, a = b \vee a = d\} .$$

Hint: Use the order \succ as defined in the lecture.

- Problem 11.10 (*ATP*)

Hint: Fix a suitable ordering on terms \succ and literals \succ_L