## Exercises for the Resolution part of ' $\mathrm{L} \& C$ '

## Exercise R1:

Find all Robinson-resolvents of $C=p(x, f(x)) \vee p(a, y)$ and $D=\neg p(x, y) \vee \neg p(a, f(x)) \vee \neg p(f(x), f(y))$.
Specify all used renamings, mgus and (implicit) factors.

## Exercise R2:

Prove that subsumed Robinson-resolvents can be discarded without sacrificing refutational completeness.

## Exercise R3:

Describe another resolution refinement (other than ordered resolution) in detail. (You don't have to give a completeness proof).

Submission of solutions (for all exercises of units 7/8/9/10):

- Deadline: December 1, 2012
- Send as PDF to chrisf@logic.at (preferably all solutions in one file!)
- Use subject line: "L\&C exercises"
- Include your name and Matrikelnmr. in the PDF
- resend/inquire, if you don't receive an acknowledment within 3 days

