

## Homework #2

Phil 478  
Spring 2018

### 1. Exercises:

- A. Verify all proper scenarios for the default theories A-H from HW#1, using approximation sequences.
- B. Represent some body of defeasible information as a default theory. Calculate the extensions of this theory. Are your results right?

### 2. Problems:

- A. Prove Theorem 2 from course notes
- B. Prove Observation 1 (using Theorem 5).
- C. Is Observation 1 still true if  $\mathcal{K}_s$  is replaced by  $\mathcal{K}_c$ ? Proof or counterexample.
- D. Represent the information from the Tweety Triangle in a Reiter default theory.