**Blatt 8**

**Exercise 8.2**

In the following, the butler will be described by B and the gardener by G.  
\_x means the negation of x.

**Assumables**

False <- workG and murderG  
 False <- workB and murder

**Observations**

\_dirtG  
 dirtB

**Rules**

dirtG <- workG  
\_murderG <- workG

dirtB <- workB  
\_murderB <- workB

**Integrity Constraints**

False <- dirtG & \_dirtG  
 False <- dirtB & \_dirtB

Conflict and Diagnosis

Assumable: workG, workB  
 by rules: dirtG, dirtB

Observed: dirtB, \_dirtG

Conflict: dirtG <- workG  
 \_murderG <- workG (no conflict with B)

The resulting minimal conflict (and minimal diagnosis) is {workG, \_murderG}.