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Aufgabe 1)

- a) $\text{drs}([X], [\text{woman}(X), \text{not}(\text{drs}([Y], [\text{snore}(Y), Y=X]))])$.
- b) $\text{drs}([X], [\text{man}(X), \text{or}(\text{drs}([Y], [\text{smoke}(Y), X=Y]), \text{drs}([V], [\text{snort}(V), V=X]))])$.
- c) $\text{drs}([X, Y], [\text{woman}(X), \text{collapses}(X), \text{walks}(X)])$.
- d) $\text{drs}([], [\text{imp}(\text{drs}([X, Y], [\text{farmer}(X), \text{donkey}(Y), \text{own}(X, Y)]), \text{drs}([U, V], [\text{beat}(U, V), U=X, V=Y]))])$.

Aufgabe 2)

1. $[P(a) \wedge T(y, a)]$
2. $[Q(b) \wedge R(a, b)]$
3. $[R(a, b) \wedge R(b, a)]$
4. $\exists y [R(a, y) \wedge Q(a)]$
5. $[R(b, b) \vee R(a, c)]$
6. $[Q(b) \vee R(b, b)]$
7. $\forall z [R(b, z) \Rightarrow \exists y (R(a, y))]$

8. $[R(c, b) \wedge T(b)]$

9. $\exists u [R(y, u) \wedge T(u)]$

10. $[T(z) \wedge \forall u [P(u) \Rightarrow R(z, z)]]$