Abdullah Barhoum, Linus Helfmann, Arne Rolf, Linus Ververs

Lösungen zur Exercise 3

# Künstliche Intelligenz

Exercise 6: Truth Tables

| p | q | r | $q \vee p$ | $q \Rightarrow \neg p$ | $\neg(r \wedge p)$ | $\{...\}$ | $\{...\} \Rightarrow \neg p$ |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 |
| 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 |
| 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 1 | 0 | 1 | 1 | 1 | 0 | 0 | 1 |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 |
| 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 |

Exercise 7: SLD

Exercise 8: DPLL I

Exercise 9: DPLL II

Exercise 10: Pythagoreans Triple Problem