

## Exercises 2, Applied Logic

The following exercises (1-6) from the text book Huth and Ryan (2004) are recommended:

1. 1.5.11
2. 1.5.15
3. 1.5.17
4. 1.6.5
5. 1.6.8
6. 1.6.12
7. The 2-CNF satisfiability algorithm: Draw the directed graph corresponding to the 2-CNF formula below and use it to decide whether the formula is satisfiable.

$$(\neg A \vee B) \wedge (B \vee A) \wedge (C \vee \neg B) \wedge (\neg C \vee A) \wedge (\neg D \vee \neg A) \wedge (B \vee D) \wedge (C \vee E) \wedge (\neg E \vee B).$$

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