

ComS 472

Homework 4

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Oct 26, 2020

- 7.22 -

- 1) If the pair of clauses has no complimentary literals, there are no resolvents. ✓
If the pair has one or more sets of complimentary literals, the resulting resolvents acquired from applying the same set of literals in any order will eventually reduce down to a single resolvent. ✓
- 2) See s02
- 3) For a clause to resolve with a copy of itself, it must contain only complimentary literals. This would make the initial clause equivalent to True

- 7.23 -

- 1)
- 2)
- 3)

- 7.26 -

- S1)
- S2)
- S3)
- S4)
- S5)

S6)

- 8.11 -

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)

- 8.23 -

- 1)
- 2)
- 3)
- 4)
- 5)

- 8.29 -

- 1)
- 2)
- 3)

- 9.4 -

- 1)
- 2)
- 3)

4)

- 9.7 -

1)

2)

3)

4)

5)

6)

- 9.9 -

1)

2)

3)

4)

5)

- 9.16 -

1)

2)

3)

- 9.18 -

1)

2)

$\neg \forall \wedge$
