Computationele logica

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1 Exercise 1

- 1. The sentence θ encoding all information:
- 2. A representation of the situation model M:

 $\mathcal{A} = \{a,\,b,\,q\}$ the agents Alice, Bob, and the Queen

 $\Phi = \{r_a, w_a, r_b, w_b\}$ the colors of the hats for a and b

This is an epistemic model: YES / NO

3. Seperately a and b look in their mirrors and see their red hats, represented in the event model Σ with four actions:

This is an epistemic model: YES / NO This is a doxasic model: YES / NO

4. The update product of the two models $\mathbf{M} \bigotimes \Sigma$:

This is an epistemic model: YES / NO This is a doxasic model: YES / NO

2 Exercise 2

- 1. There are ? possible worlds.
- 2.

- 3.
- 4.
- 5.

3 Exercise 2

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.