Description Logics

Exercise Sheet 10

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Exercise 1

Finish the proof of Lemma 6.7 by showing that $v_0 \in C_G^I$.

Exercise 2

Determine whether or not Player 2 has a winning strategy in the EXPTIME game
$G' = (\varphi, \Gamma_1, \Gamma_2, t_0)$ with

- $\varphi = (p_1 \wedge p_2 \wedge p_3 \wedge \neg q) \vee (\neg p_1 \wedge \neg p_2 \wedge \neg p_3 \wedge q)$,

- $\Gamma_1 = (p_1, p_2, p_3)$,

- $\Gamma_2 = (q)$,

- $t_0(p_1) = t_0(p_2) = t_0(p_3) = t_0(q) = 0$.