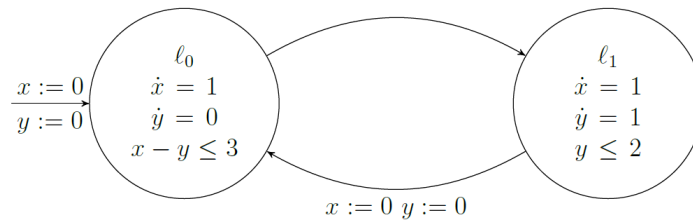




Tutorials for Cyber-Physical Systems - Hybrid Models
Exercise sheet 5

Exercise 1: Hybrid automaton

Consider the following linear hybrid automaton:



We define R_i as follows:

$$R_0 = (\ell_0, x = y = 0)$$

$$R_i = \langle \text{post}[R_{i-1}] \rangle^{\nearrow}$$

for $i > 0$. Please compute R_2 .