## MPRI 2-8-2 Cyber-physical systems and their verification

## A timed automaton

## **Exercice 1** – *Is it empty ?*

Use your favorite verification method to check emptiness of the language of the timed automaton below. You can draw pictures to represent zones or regions.

a, 
$$2 < x < 3/x := 0$$
  
 $\rightarrow p$  b,  $5 < y < 7/y := 0$  d b,  $x = 3, y = 1$  r