

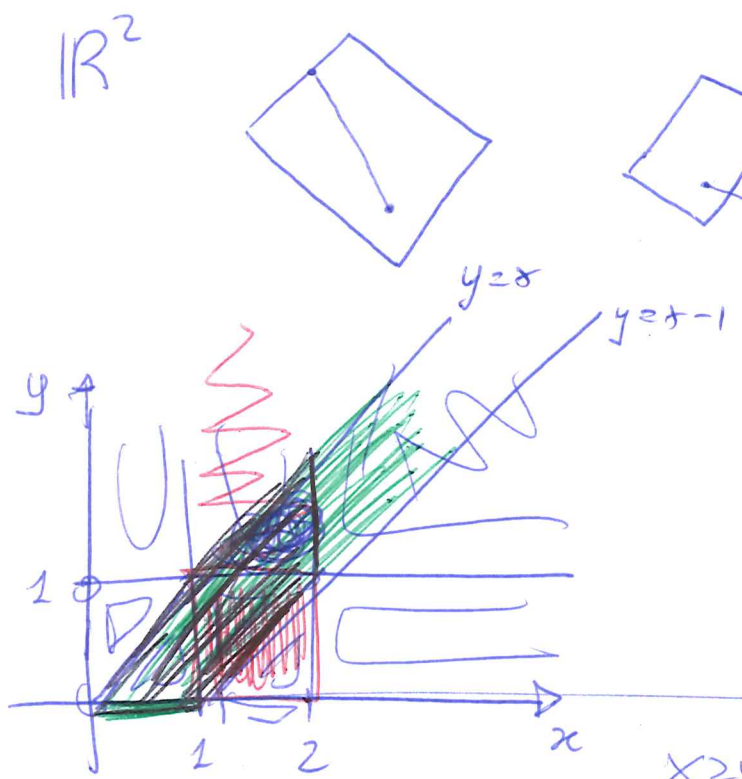
Zona  $Z$  UNIONE CONVESSA di REGIONI

RPSV 1617

25/01/17

TESEI

①



$\rightsquigarrow \mathbb{R}^n$

Rappresentazione Simbolica

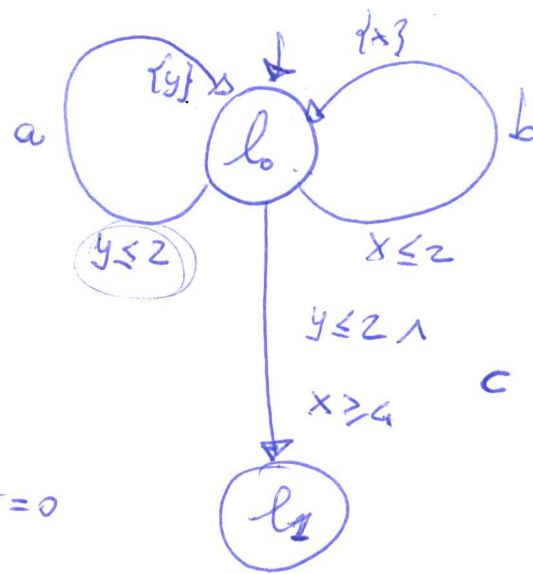
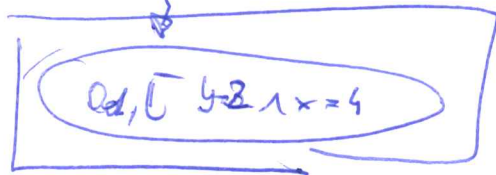
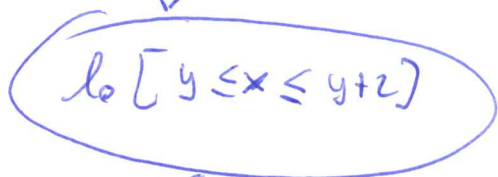
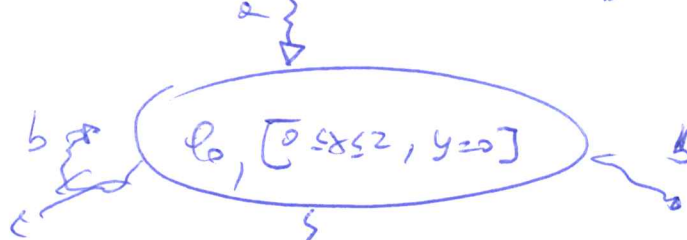
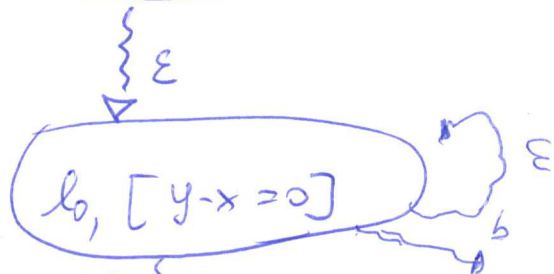
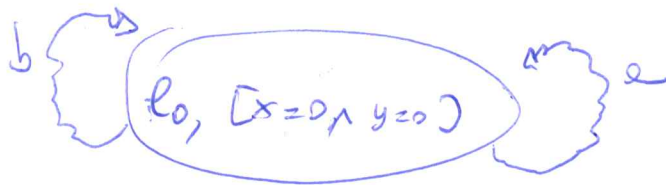
$$Z ::= x \bowtie c \mid Z \wedge Z \mid \underline{x - y} \bowtie c$$

$x, y \in \mathbb{C}$  locks

$x \geq 0 \wedge y \geq 0$   
 $\bowtie \in \{<, <=, =, >=, >\}$

$C \in \mathbb{N}$

$$\left\{ \begin{array}{l} y \leq x \equiv y - x \leq 0 \\ y \geq x - 1 \equiv y - x \geq -1 \\ x \leq 2 \\ y \geq 1 \end{array} \right.$$



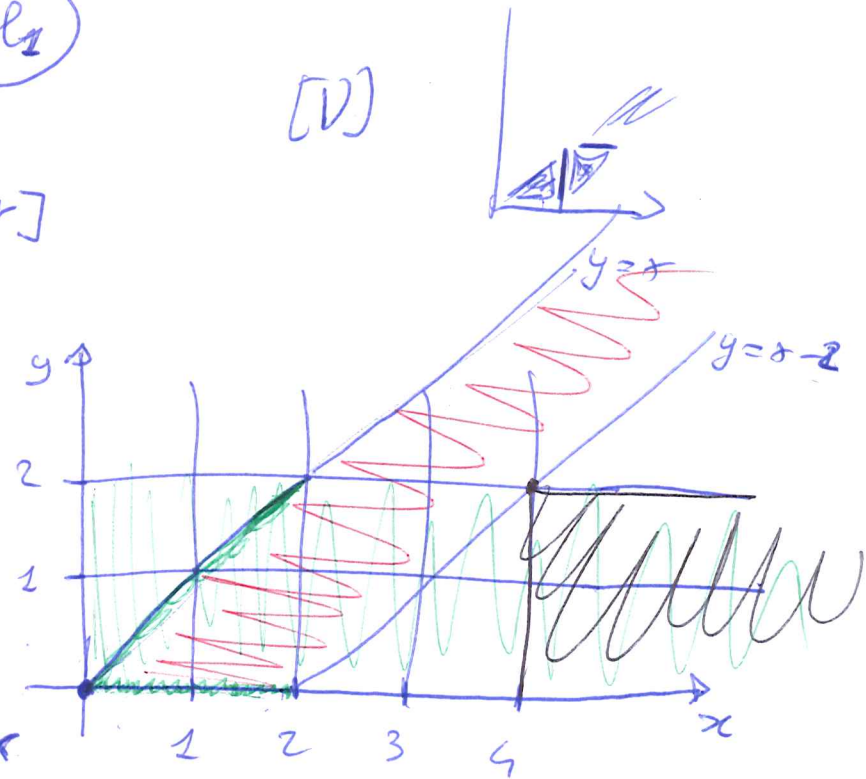
$C_y = 2$   
 Reached  $(l_1, \checkmark)$   
 $C_x = 4$  (2)

$y-x=0$   
 $\wedge$   
 $y \leq 2$   
 $\wedge$   
 $y=0$

$0 \leq x \leq 2$   
 $\wedge$   
 $y=0$

~~$y \leq 2$~~   
 ~~$y \leq x-2$~~   
 ~~$y+2 \leq x$~~

$Z \uparrow$   
 $Z \downarrow$



$$\frac{l \xrightarrow{g} l' \quad (Z \wedge g)[l] \wedge I(l') \neq \emptyset}{(l, Z) \rightsquigarrow (l', (Z \wedge g)[l] \wedge I(l'))} \quad \text{FALSE} \quad \times$$

$$(l, Z) \rightsquigarrow (l, Z \uparrow \wedge I(l))$$