

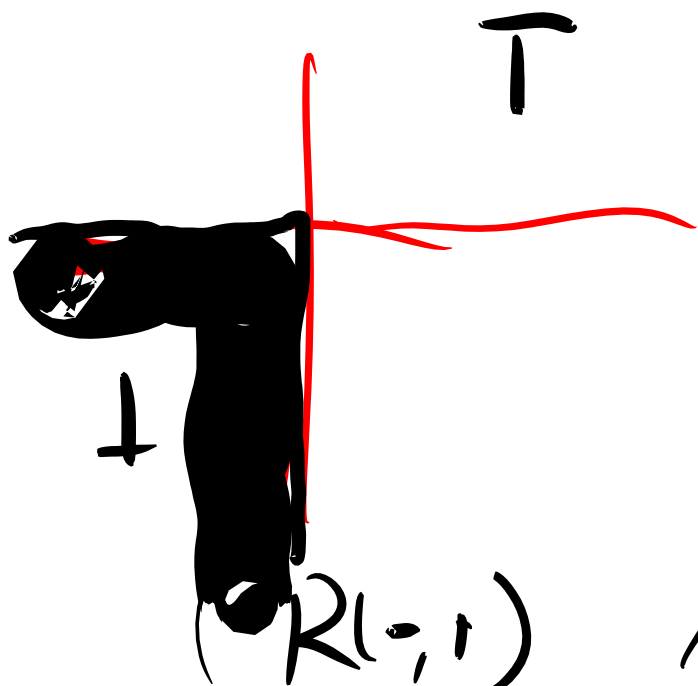


no  $R(-3, -3)$   $\circ$   $\circ$   $\blacksquare$  1, 1 1, 7 7, 1 8, 103  
 no  $\blacksquare$   
 yes  $R(-3, 1), R(1, -3)$  0, 1 0, 1  $\boxed{0, 0}$  -3, 7, ...  
 $\text{not } R(-3, -3)$   $\perp$

—  $R(x, x)$  in  
 - no  
 asg, m

$R(1, 2) = \perp$   
 $R(\frac{3}{2}, 2) = T$

$R(1, \frac{3}{2}) = T$   $R(1, \frac{7}{4})$   
 $R(\frac{3}{2}, \blacksquare) = T$   
 $R(1, \frac{1}{2}) = F$   
 $R(\frac{3}{2}, 1) = F$



$$R(-, +) \wedge R(+, -) \rightarrow R(\bullet, \ominus)$$

Su

$\forall x, y$

$$R(x, y) = R(y, x)$$

anisi

$\forall x, y$

$$x \neq y \rightarrow R(x, y) \neq R(y, x)$$

$$\begin{array}{r} 9 \\ 4 \\ 1 \\ 0 \end{array} \quad \begin{array}{r} 3 \\ 2 \\ 1 \\ 0 \end{array} \quad \begin{array}{r} = 6 \\ = 2 \\ = 0 \\ = 0 \end{array}$$

← 3, 4, 5  
← 1

✓

X

X

a

$$\forall x, y \quad (R(x, y) \neq R(y, x))$$

anti

$$\forall x, y \quad (x \neq y) \Rightarrow (R(x, y) \neq R(y, x))$$

ref

$$\forall x \quad R(x, x)$$

irref

$$\forall x \quad \neg R(x, x)$$

$$\begin{array}{c}
 0? \\
 1? \\
 \vdots \\
 9?
 \end{array}
 \begin{array}{c}
 2 \\
 2 \\
 \cdot \\
 2
 \end{array}
 = 2^{10}$$

$$\frac{10 \cdot 9 \cdot 8 \cdot \dots}{6!}$$

$$\binom{10}{6} = \frac{10!}{(10-6)! \cdot 6!}$$

$$26 \cdot (10+26)^5$$



$$\frac{6!}{2!}$$

$\{(4, 1, 3, 3, 3), (4, 2, 3, 3, 3)\}$