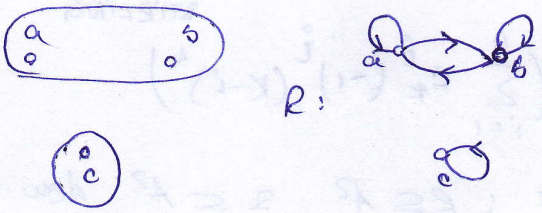
$\Delta_A \subseteq R \Leftrightarrow \Delta_A^{-1} \subseteq R^{-1} \Leftrightarrow \Delta_A \subseteq R^{-1} \Rightarrow R^{-1}$ reflexivă

Δ_A = Δ_A

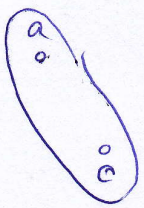
$(R^{-1})^{-1} = R = R^{-1}$

$(R^{-1})^2 = (\underbrace{R^2}_{\subseteq R})^{-1} \subseteq R^{-1} \Rightarrow R^{-1} \in Echiv(A)$

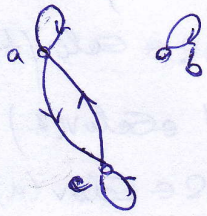
Fie $A = \{a, b, c\}$ ($|A| = 3$) și $R, S \in Echiv(A)$:



R:



S:

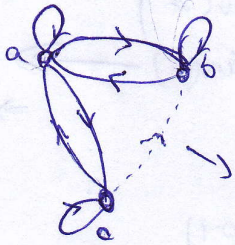


(c,b)

$R \cup S$:

$\in$ $\in$

(c,a) (a,b)

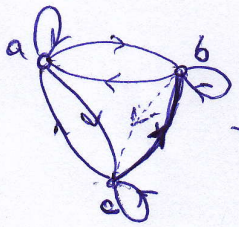


nu e tranzitivă

(b,c)

$R \circ S$:

(c,b)



– nu este simetrică

$\Delta_A \subseteq S \Rightarrow (R \setminus S) \cap \Delta_A \subseteq (R \setminus S) \cap S = \emptyset \Rightarrow (R \setminus S) \cap \Delta_A = \emptyset$

reflex

$\Delta_A \neq \emptyset$

$A \neq \emptyset$

$\Rightarrow \Delta_A \not\subseteq R \setminus S \Rightarrow R \setminus S$ nu e reflexivă

$\Downarrow$

$R \setminus S \notin Echiv(A)$

$(\forall R, S)$