

$$K \times K \rightarrow K \quad \vee, \wedge$$

$$K = 2^M, \quad A, B, C \in K$$

$$A \wedge B \quad \dots \quad \text{průnik}$$

$$A \vee B \quad \dots \quad \text{sjednocení}$$

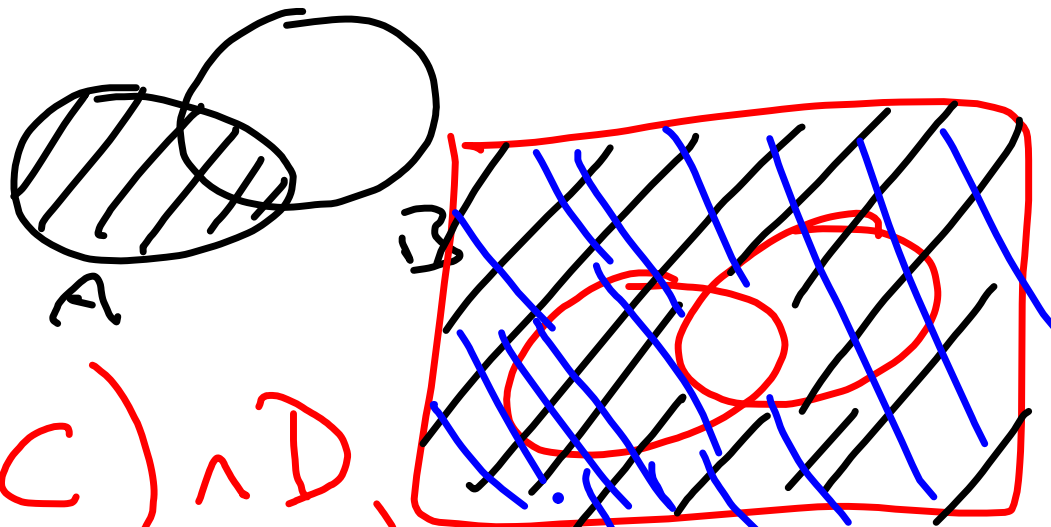
$$0 \quad \dots \quad \emptyset \quad \text{"nejmenší"} \quad \text{prvek} \quad \cap$$

$$1 \quad \dots \quad M \quad \text{"největší"} \quad \text{prvek} \quad \cup$$

$$A' = M \setminus A \quad \text{doplnek}$$

$\underline{\text{Obraz: } (K, \vee, \wedge)}$ kde musí být
 $\gamma: K \rightarrow K$ (dvojice)

$$\underline{A \wedge A' = 0} \quad \underline{A \vee A' = 1}$$

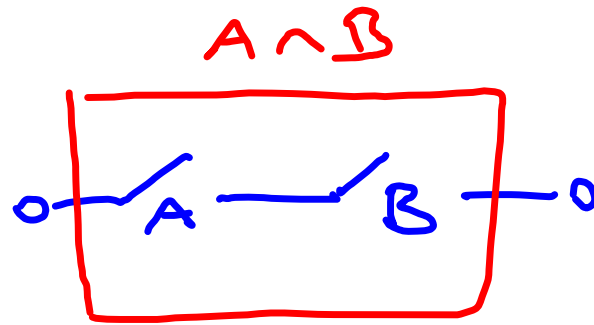


$$\underline{(A \cap B)' \cup C) \cap D}$$

"stav" jako výrok

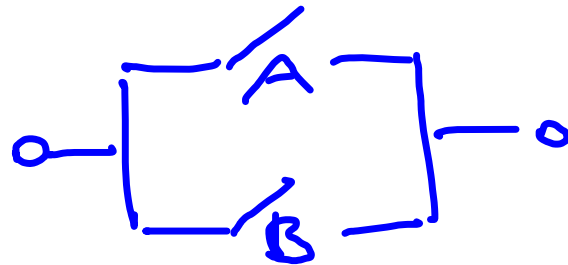


$A \wedge B$



seriové

$A \vee B$



paralelné

stav $\sim A, B, \dots, \wedge, \vee, \neg$

0

o

o

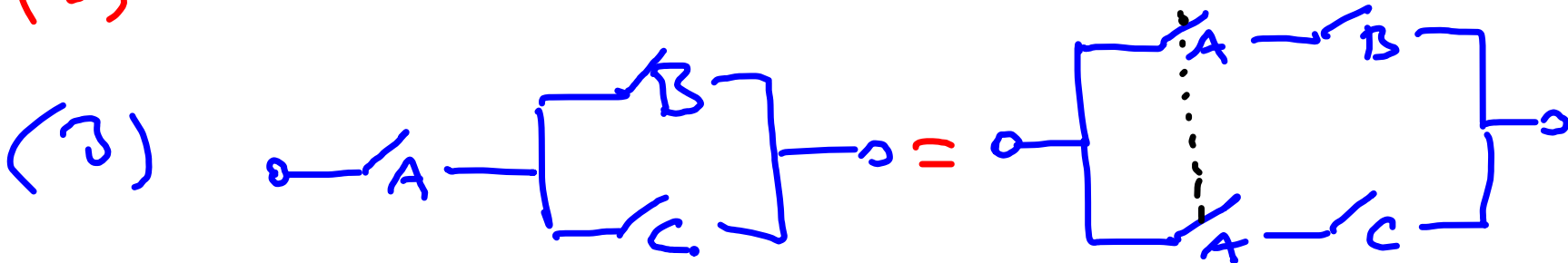
1



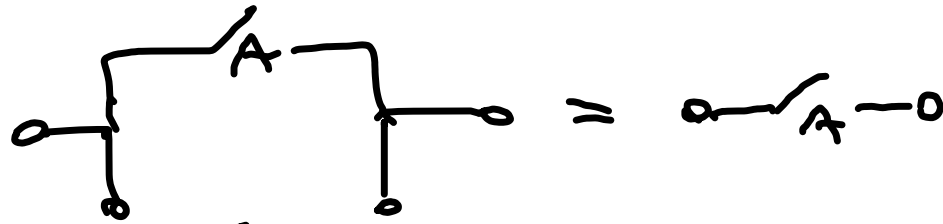
(1) asociativita správě

$$A \cap (B \cap C) = (A \cap B) \cap C$$

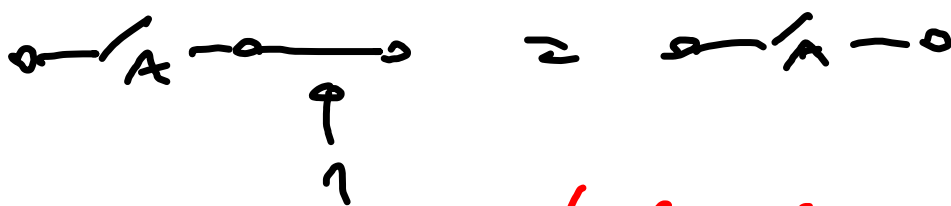
(2) ✓



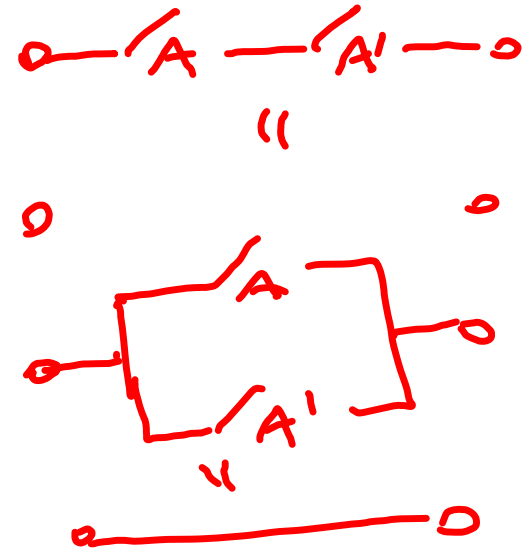
(4)



(5)



⇒ hodnotiví funkce



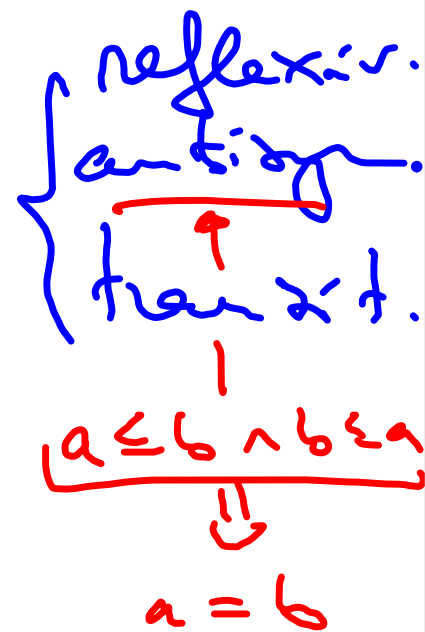
$$D_{30} = \{1, 2, 3, 5, 6, 10, 15, 30\}$$

$$q' = 30/q$$

$$G' = 5$$



(K, \leq) , $\leq \subset K \times K$
 semi space $K \times K \rightarrow K$



poset

$$2^M = K$$

$$A \subseteq B$$

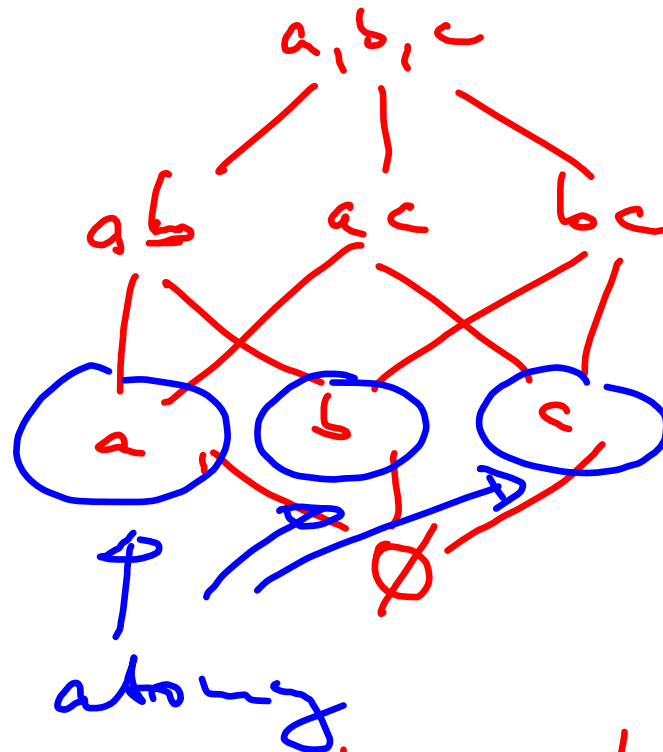
$\forall x \in A \Rightarrow x \in B$
 - " -

$$A \cap B = A$$

$$A \cup B = B$$

Hlasenka digrafu

$$\Pi = \{a, b, c\} \quad 2^M$$



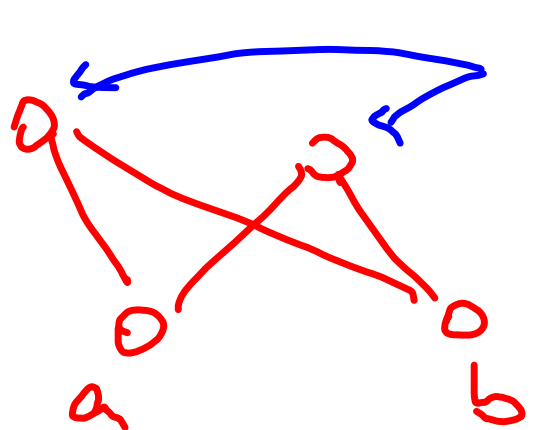
Poset (V, \leq)

horní zámek
dolní zámek

infimum
dolní váha

Supremum $a \vee b$
je nejmenší horní
váha (nemí existovat)

$a \wedge b$ je největší
váha



jiní kóví zírny $\{a, b\}$

$$\varphi: (\mathbb{Z}_2)^n \rightarrow \mathbb{Z}_2 \quad 2^{2^n}$$

me 2^n atomů

objekt \leftrightarrow morfismus $(K, \leq), (L, \leq)$

morfismus po seti = interval' zobrazeni

$$f: K \rightarrow L, \quad a \leq b \Rightarrow$$

$$f(a) \leq f(b)$$

b kon' sive po $S \subset K$

$$\Rightarrow f(S) \subseteq L$$

morfismus seziti

$$f(a \vee b) = f(a) \vee f(b)$$

$$f(a \wedge b) = f(a) \wedge f(b)$$