

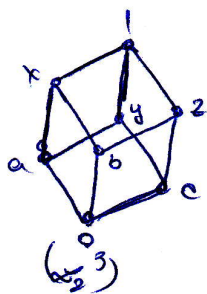
$$\Rightarrow xvy \approx x'vy \Leftrightarrow (xvy)/\approx = (x'vy)/\approx \Leftrightarrow x/\approx \vee y/\approx = x'/\approx \vee y/\approx$$

$$\bullet x/\approx \vee (x/\approx \wedge y/\approx) = x/\approx \vee (x \wedge y)/\approx = (x \vee (x \wedge y))/\approx = x/\approx$$

$$\bullet \begin{cases} 0 \rightarrow 0/\approx \\ \vee \\ x \rightarrow x/\approx \end{cases}$$

Exerc: Sa se determine filtrele atomice si algebrele boole factoriale ale calculului

Rez



$$|L_2^3| = 2^3 = 8 < \aleph \Rightarrow (\forall \neq \in \mathbb{F}(L_2^3))$$

$$(\forall \alpha \in L_2^3 / \neq = \Sigma \alpha) \Rightarrow \neq(L_2^3) = \{\Sigma 0, \Sigma a, \Sigma b, \Sigma c, \Sigma d, \Sigma 1\}$$

$$\{\beta \in L_2^3 / \alpha \leq \beta\}$$

$$\{\Sigma x, \Sigma y, \Sigma z, \Sigma 1\}$$

$$\text{Am ca } L_2^3/\Sigma 0 \cong L_2^0 \cong L_1 \quad L_2^3/\Sigma 1 \cong L_2^3$$

$$L_2^3/\Sigma a \cong L_2^3/\Sigma b \cong L_2^3/\Sigma c \cong L_2^3$$

$$L_2^3/\Sigma x \cong L_2^3/\Sigma y \cong L_2^3/\Sigma z \cong L_2^2$$

$$\text{Fie } \alpha, \beta \in L_2^3$$

$$\alpha \sim_{\Sigma 0} \beta \Leftrightarrow \alpha \wedge 0 = \beta \wedge 0 \Leftrightarrow 0 = 0 \Rightarrow (\forall \gamma \in L_2^3) \gamma/\Sigma 0 = 0/\Sigma 0 \Rightarrow$$

$$L_2^3/\Sigma 0 = \{0/\Sigma 0\} \cong L_2^0 \cong L_1$$

$$\alpha \sim_{\Sigma 1} \beta \Leftrightarrow \alpha \wedge 1 = \beta \wedge 1 \Leftrightarrow \alpha = \beta \Rightarrow (\forall \gamma \in L_2^3) \gamma/\Sigma 1 = \{\gamma\} \Rightarrow$$

$$\Rightarrow L_2^3/\Sigma 1 = \{\{\gamma\} / \gamma \in L_2^3\} \cong L_2^3$$

$$\alpha \sim_{\Sigma a} \beta \Leftrightarrow \alpha \wedge a = \beta \wedge a$$

$$0/\Sigma a = \{\gamma \in L_2^3 / \gamma \wedge a = 0 \wedge a = 0\} = \{0, b, c, d\}$$

$$1/\Sigma a = \{\gamma \in L_2^3 / \gamma \wedge a = 1 \wedge a = a\} = \Sigma a = \{a, x, y, z\}$$

$$\Rightarrow L_2^3/\Sigma a = \{0/\Sigma a, 1/\Sigma a\} \cong L_2$$