30%

MOCTPOGTE HCA 30 L

L={wau | w,u { {a,8}* ^ Iw1= |u1}

 $\triangle (P, B, \#) = \{ (P, X \#) \}$ $\triangle (P, Q, \#) = \{ (P, X \#), (P, \#) \}$ $\triangle (P, B, x) = \{ (P, X x) \}$ $\triangle (P, Q, x) = \{ (P, X x), (P, X x) \}$ $\triangle (P, Q, X) = \{ (P, X x), (P, X x) \}$

Тh. Мношеството от езизите, които

се разпознават от НСА съвпада

с м.вото на к.-с. езизи

1) AKO [e K.-c., TO] HCA. P.

Щом L е K-C., TO ∃K.-C. 2PAMATLIKG

G: L(G) = L

KOHCTPYKYUS: PPAMATUKU -> CT. OBTOMOT.

$$G = \langle V, \Sigma, S, R \rangle$$

TBPCUM OT. CIBTUMOT P: L(G) = L(P)

$$\Delta(q, \alpha, \alpha) = \{(q, \epsilon)\} \forall \alpha \in \Sigma$$

 $\Delta(q, \epsilon, \sharp) = \{(q_{occept}, \epsilon)\}$

$$\Delta(q_{sterr+1}E_j\#)=\{(q_jS\#)\}$$

$$\Delta (q, \varepsilon, 5) = \{(q, a5c), (q, B)\}$$

$$\Delta(q, \varepsilon, B) = \{(q, BB), (q, \varepsilon)\}$$

$$\Delta(q,\alpha,\alpha)=\{(q,\epsilon)\}$$

$$\Delta(q, \varepsilon, \#) = \{ | \varphi_{\alpha c c e p t}, \varepsilon | \}$$

2) Ako за L съществува НСД Р: L(P)=L, то Le к.-с.

Конструкция: НСА -> К.-С. 2 РОМОТИКО (ТРУУНО КОНТРУКЦИЯ)

16. Axo L1 e x.-c. u L2 e pez.,
TO L1 | L2 e x.-c.

L1 e k.c. => 3 H.C. # P: L[P)= L1

L2 e pez => 3 k.A. A: L(A) = L2

P= (Q',Σ, Γ, #, qs, qf, Δ) A= (d',Σ,s, F, s)

TEPCUM P': L(P') = L(P) 1 L(A)

P'=(@'x@", \\,\#, <95,5>, \qs\xF, \\')

 $\langle\langle P, r \rangle\rangle = \pm \Delta(\langle q, t \rangle, \alpha, X) \langle -\rangle$ $\int(\langle P, r \rangle) = \pm \Delta(\langle q, t \rangle, \alpha, X) \rightarrow \langle P, x \rangle$

К.-С. езизи не со затворени относно: П,

L1, L2 - K.-c. => L1/1 L2 e K.-c.

des: Регулярна граматика.

G= (V, S,S,R) RE VX (SxV)US)

BCUYKH MPabuna ca BZB Bugu:

A->6B

A -> a

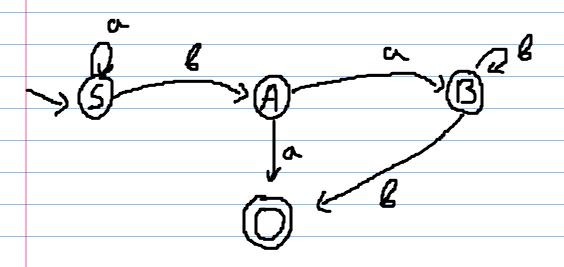
Езидите на рег. граматики са регулярни,

Pez. ZPAMATHKA
$$\rightarrow$$
 abtumat
 $G = \langle V, \Sigma, S, R \rangle$

$$S(A, \alpha) = T \leftrightarrow IA, \alpha T \in R V$$

 $f = T^{(A, \alpha)} \in R$

Phmep:



abtomat -> pez. 2pamatura
$$A = \langle Q_1 \Sigma_1 S_1, F_1, \sigma \rangle$$

$$G = \langle Q_1 \Sigma_2, S_1, R_2 \rangle$$

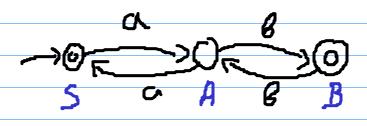
$$A \Rightarrow \alpha B \leftrightarrow \sigma (A_1, \alpha) = B$$

$$\forall A \in \Sigma \quad A \Rightarrow \alpha \leftarrow \sigma \quad \sigma(A_1, \alpha) \cap F \neq \beta$$

$$\forall \alpha \in \Sigma \quad A \Rightarrow \alpha \leftarrow \sigma \quad \sigma(A_1, \alpha) \cap F \neq \beta$$

5->E ←> 5EF

MPLMEP:



| 5-> a A | E | A -> a S | B | a | B | B -> B A