Mitt drain: - Myhill Nevade titel (moradelenyelv) - reg. kif -> outomata 5 Amaxista

## E-mentesites

1) Meghatalossur assort a memterminalisatat, amissal levertheto

$$\begin{array}{c}
O \neq E \\
V_{\Lambda} = \frac{1}{2}A \mid A - E \in P \\
U_{i+\Lambda} = U_{i} \cup \frac{1}{2}A \mid A - V \in P \land V \in U_{i}^{*} \\
V_{M+\Lambda} = V_{M} = V
\end{array}$$

2) P-beli stabolyst atalosator

- · A > BC, A, B, C EN N 3, C EU: A > 3, A -> C
- · A -> 3c , 3 EV , C & U : A -> C
- · A -> 3c, 3¢ UNCEU: A -> 3

$$\frac{7 - AA(SS)}{U_1 = AA(SS)}$$

$$U_2 = U_2(1) AA(SS)$$

$$U_{1} = \{A\}$$
 $U_{2} = U_{1}U \{A\} = \{A,A\}$ 
 $U_{3} = U_{2}U \{A\} = \{A,A\} = U$ 

5->5/2 5->BALALBLOG

$$U_{A} = \{2\}$$
 $U_{L} = \{3, A\}$ 
 $U_{3} = \{3, A, 5\}$ 
 $U_{4} = U_{3} = U$ 

$$S \rightarrow Q$$
  
 $A \rightarrow BC$   $A,B,CEN N (B,C  $\neq S$ ,  $Gas \rightarrow E \in P$ )  
 $A \rightarrow a$   $A \in V$ ,  $a \in T$$ 

Tetel: Minden 2-es tipusal grammaticalhot egy vele Errivalens Chamsey normalformajul gram. (CNF)

## Chamsky warmol formara hora's Cepeter

- 1) lij lesológrimbólum beveretése: So, So > S (Csaz la S sacrepel szabály jabboldolóm)
- 2) Acterminolisse borestèse, las medució

$$pl: X \Rightarrow a3c$$

$$\begin{cases} X_1 \Rightarrow a \\ X_2 \Rightarrow c \\ X \Rightarrow X_1 3 \times a \end{cases}$$

$$A \rightarrow A_1A_2 \dots A_m \quad (m \ge 3)$$

$$A \rightarrow A_17$$

$$A \rightarrow A_{1}T_{1}$$

$$T_{1} \rightarrow A_{2}T_{2}$$

$$T_{2} \rightarrow A_{3}T_{3}$$

3) E-mententes

$$p: S \to A | A + S$$
  $N = [A, 3, 5]$   
 $A \to 3 | 3 * A$   $T = [+, *, (,), a]$   
 $S \to a | (S)$ 

$$S_0 \rightarrow S$$
 $S \rightarrow A \mid A \times_1 S$ 
 $A \rightarrow S \mid S \times_2 A$ 
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P.

pl: 
$$S \to AB \mid AC$$
 $A \to aba \mid DS$ 
 $3 \to DCC \mid aS$ 
 $C \to bb D \mid E$ 
 $D \to SS \mid E$ 

1) lepes: alterninolisse, cossaneduccid

So > S

S > A3 | AC

A > 
$$\times_1 \times_2 \times_1$$
 | DS

 $\times_1 \times_2 \times_1$  | DS

 $\times_2 \times_1 \times_2 \times_1$  | DS

 $\times_2 \times_1 \times_2 \times_1$  | DS

 $\times_1 \times_2 \times_1$  | DS

 $\times_2 \times_1 \times_2 \times_1$  | DS

 $\times_2 \times_1 \times_2 \times_1$  | DS

 $\times_2 \times_1 \times_2 \times_1$  | DS

$$X_1 > 0$$
 $X_2 > 6$ 
 $X_2 > 6$ 
 $X_2 > 6$ 
 $X_1 > 0$ 
 $X_2 > 0$ 
 $X_2$ 

S. Copel: E-mententis 
$$\sqrt{\frac{1}{2}}$$

h. Copel: Lanctalonatais

 $S_0 \rightarrow S$ ,  $S \rightarrow A$ ,  $A \rightarrow S$ 
 $S \rightarrow a \times 37s \times 37z \times 147$ 
 $S \rightarrow a \times 37s \times 157z \times 147$ 
 $A \rightarrow a \times 37s \times 157z \times 147$ 
 $A \rightarrow a \times 37s \times 157z \times 1$ 

$$C \rightarrow X_2 X_2 D | \mathcal{E}$$

$$D \rightarrow SS | \mathcal{E}$$

(12) - min > X273 | E 73->X,D D->55 K

3 lepes: E-mentesites  $U_{\Lambda} = \{C, D\}$ 

U2= [C, D, 7, ]

U3=U2U23 }= 23, C, D, 727

 $U_4 = U_2 \cup \{ \} = U$ 

U= 23, C, D, 22}

 $S_0 \Rightarrow S$   $S \rightarrow AS |AC|A$   $A \Rightarrow x_1 + 1DS |S$ 3 > DZ2 | X15 | D | Z2 

4 lépis: Lametolanitais

(5, >5, 5 × A, A×5, 3 > × 2, 2, 2, 2×c)

S -> A3/AC/X, 2, 1 DS S >> A3/AC/X, 2, 1 DS A -> X, 2, 1 DS/A3/AC

3->D72 | X15 | 55 | CC | X223

C = X2223

D-255

 $\frac{1}{2}$   $\Rightarrow \times_2 \times_1$   $\frac{1}{2}$   $\frac{1}{2}$   $\frac{1}{2}$ 

23 -> X2D/b

 $X_1 \rightarrow \infty$ 

 $\chi_{z} \Rightarrow \phi$