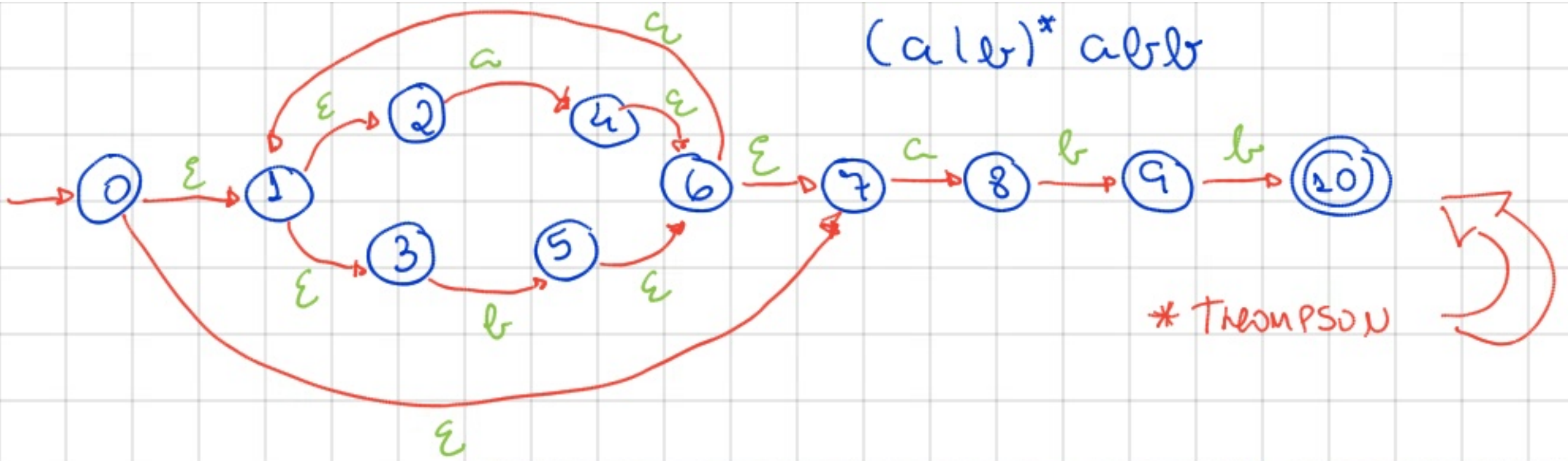
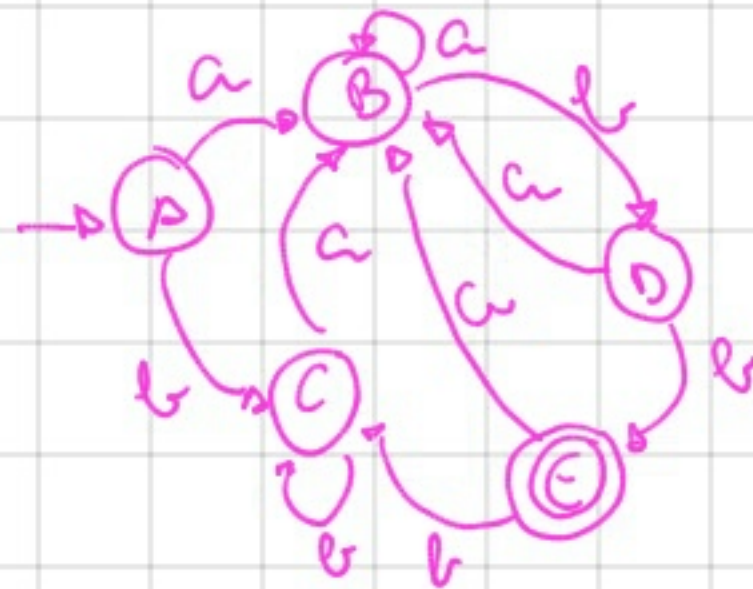
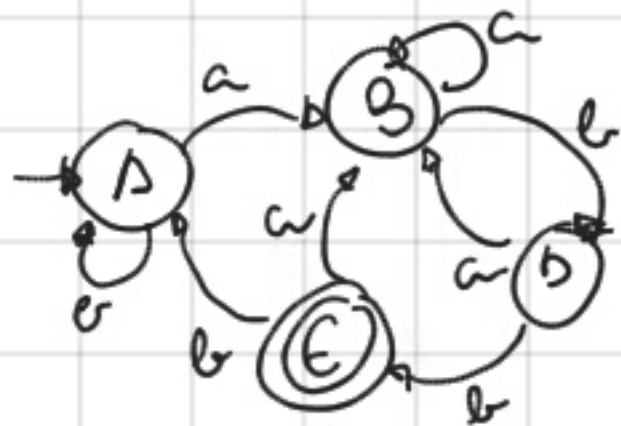


$(a|b)^* a|b|b$



AFD MINIMIZADO



Autômato Extraído
do Algoritmo
de Subconjuntos

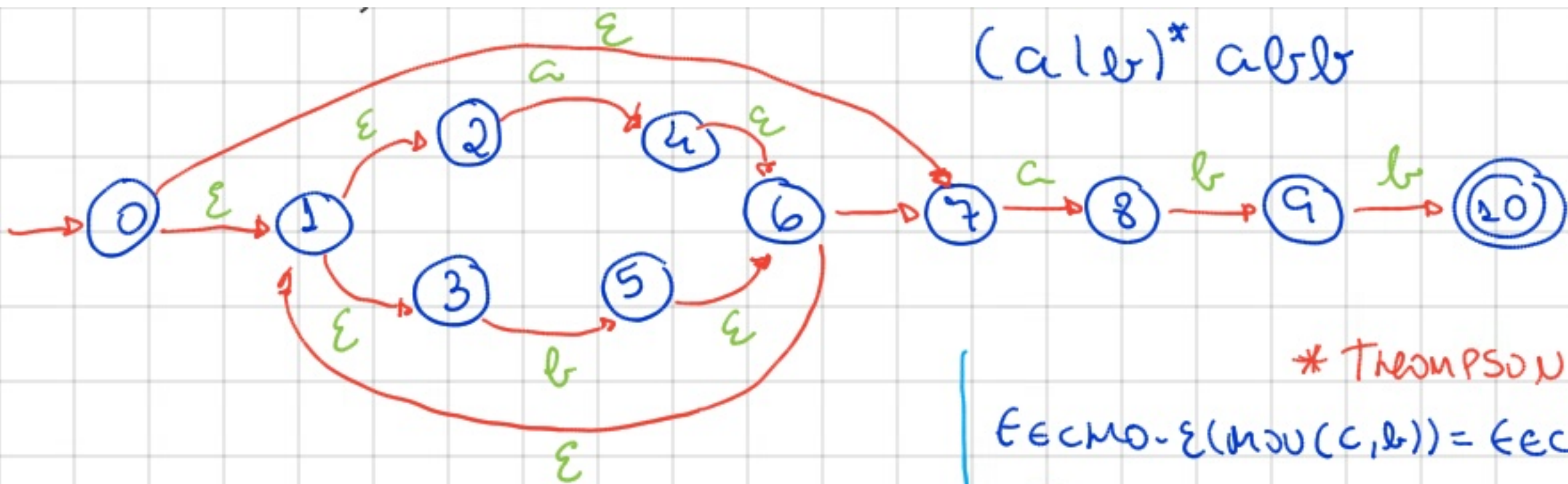
Obs: uso mini-
mizado

ALGORITMO DE MINIMIZAÇÃO

$$\Pi_1 = \{A, B, C, D\} \\ \{E\}$$

$$\Pi_2 = \{A, B, C\} \\ \{D\} \{E\}$$

$$\Pi_3 = \{A, C\} = A \\ \{B\} \{D\} \{E\}$$



$(a|b)^* ab|b$

* THOMPSON

AF ϵ \rightarrow AFD

ALGORITMO DE SUBCONJUNTOS

$$FECMO-\epsilon(0) = \{0, 1, 2, 3, 7\} = A$$

$$FECMO-\epsilon(MOV(A, a)) = FECMO-\epsilon(\{4, 8\}) =$$

$$\{1, 2, 3, 4, 6, 7, 8\} = B$$

$$FECMO-\epsilon(MOV(A, b)) = FECMO-\epsilon(\{5\}) =$$

$$\{1, 2, 3, 5, 6, 7\} = C$$

$$FECMO-\epsilon(MOV(B, a)) = FECMO-\epsilon(\{4, 8\}) = B$$

$$FECMO-\epsilon(MOV(B, b)) = FECMO-\epsilon(\{5, 8\}) =$$

$$\{1, 2, 3, 5, 6, 7, 8\} = D$$

$$FECMO-\epsilon(MOV(C, a)) = FECMO-\epsilon(\{4, 8\}) = B$$

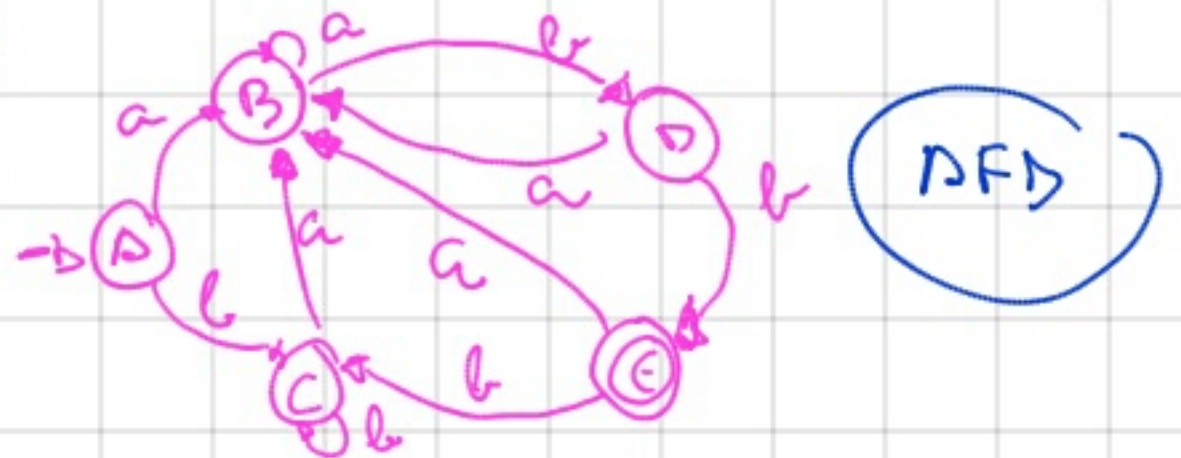
$$FECMO-\epsilon(MOV(C, b)) = FECMO-\epsilon(\{5\}) = C$$

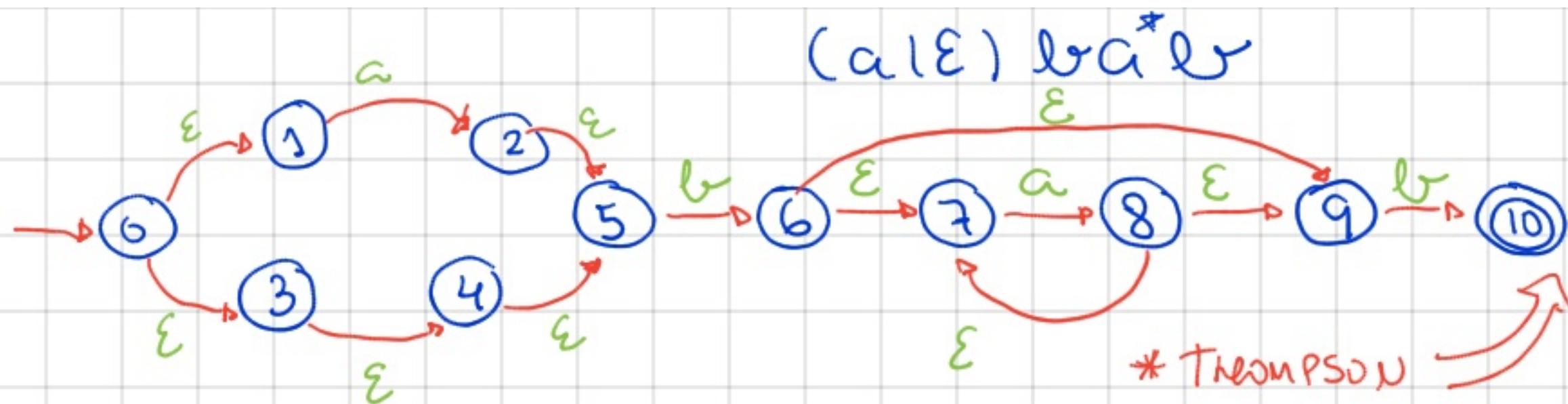
$$FECMO-\epsilon(MOV(D, a)) = FECMO-\epsilon(\{4, 8\}) = B$$

$$FECMO-\epsilon(MOV(D, b)) = FECMO-\epsilon(\{5, 10\}) = \{1, 2, 3, 5, 6, 7, 10\} = E$$

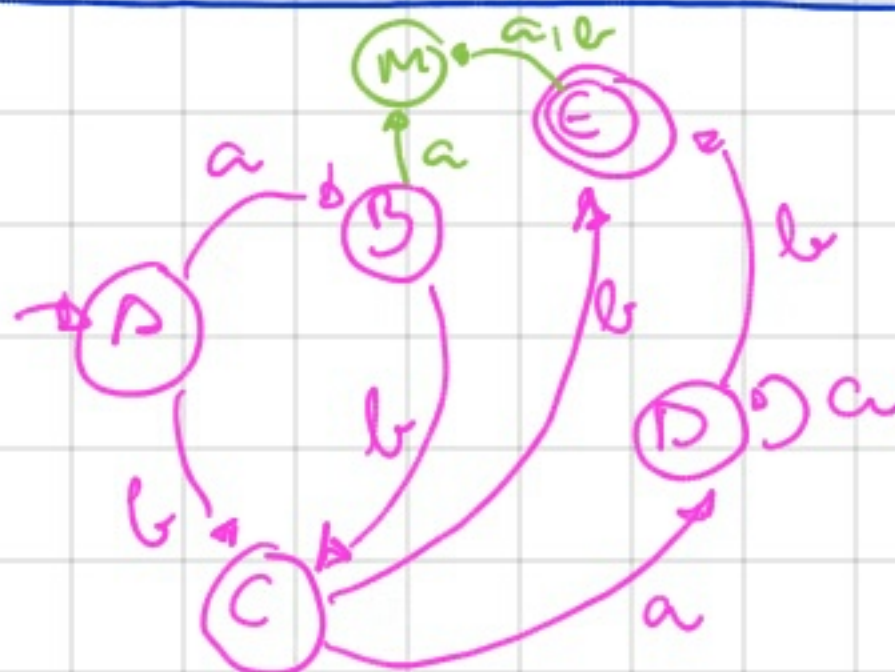
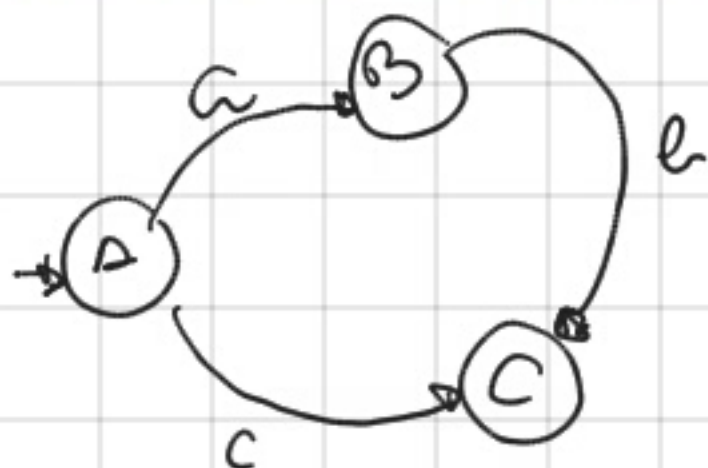
$$FECMO-\epsilon(MOV(E, a)) = FECMO-\epsilon(\{4, 8\}) = B$$

$$FECMO-\epsilon(MOV(E, b)) = FECMO-\epsilon(\{5\}) = C$$





AFD MINIMIZADOS

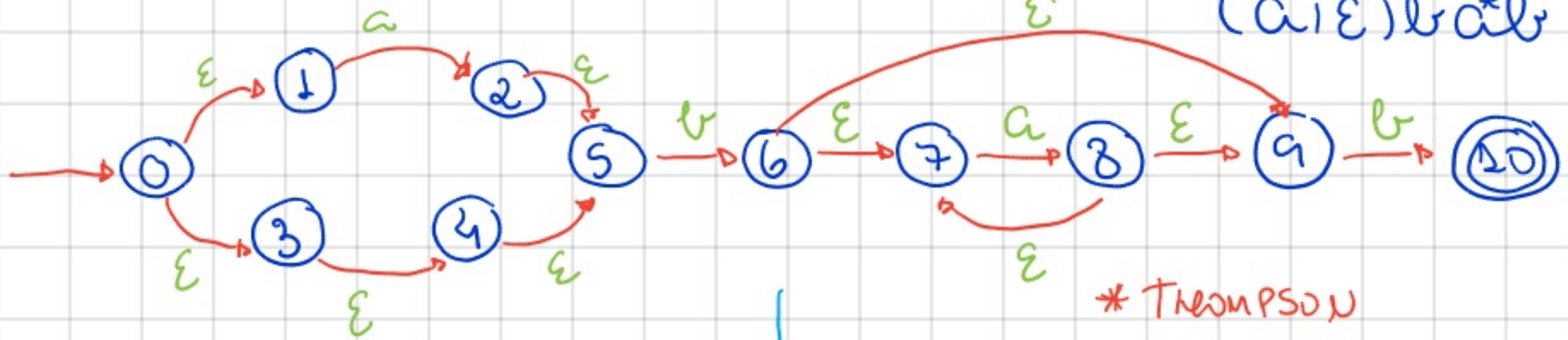


Autômato Extraído
do Algoritmo
de Subconjuntos

Obs: uso mini-
mizado

ALGORITMO DE MINIMIZAÇÃO

$$\begin{array}{lll} \Pi_1 = \{A, B, C, D, M\} & \Pi_2 = \{A, B\} & \Pi_3 = \{A\} \\ \{E\} & \{C, D\} \{M\} \{E\} & \{B\} \{C, D\} \{M\} \{E\} \end{array}$$



AFS \rightarrow AFD

ALGORITMO DE SUBCONJUNTOS

$$FECMO-\epsilon(0) = \{0, 1, 3, 4, 5\} = A$$

$$FECMO-\epsilon(MOV(A, a)) = FECMO-\epsilon(\{2\}) = \{2, 5\} = B$$

$$FECMO-\epsilon(MOV(A, b)) = FECMO-\epsilon(\{6\}) =$$

$$\{6, 7, 9\} = C$$

$$FECMO-\epsilon(MOV(B, a)) = FECMO-\epsilon(\{\}) = -$$

$$FECMO-\epsilon(MOV(B, b)) = FECMO-\epsilon(\{6\}) = C$$

$$FECMO-\epsilon(MOV(C, a)) = FECMO-\epsilon(\{8\}) =$$

$$\{7, 8, 9\} = D$$

* THOMPSON

$$FECMO-\epsilon(MOV(C, b)) = FECMO-\epsilon(\{10\}) = \{10\} = E$$

$$FECMO-\epsilon(MOV(D, a)) = FECMO-\epsilon(\{8\}) =$$

D

$$FECMO-\epsilon(MOV(D, b)) = FECMO-\epsilon(\{10\}) = E$$

$$FECMO-\epsilon(MOV(E, a)) = FECMO-\epsilon(\{\}) = -$$

$$FECMO-\epsilon(MOV(E, b)) = FECMO-\epsilon(\{\}) = -$$

AFD:

