

## Práctica Automatas:

	x	y
A	B	C
B		D
C	B	C
D	B	C

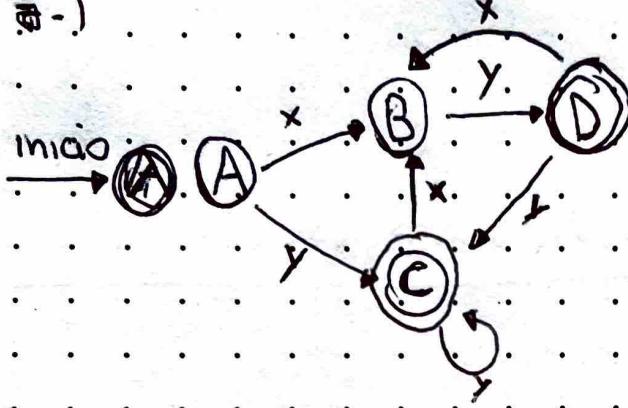
$$V = \{a, b\}$$

$$S = \{A, B, C, D\}$$

$$S_0 = \{A\}$$

$$F = \{C, D\}$$

a -)

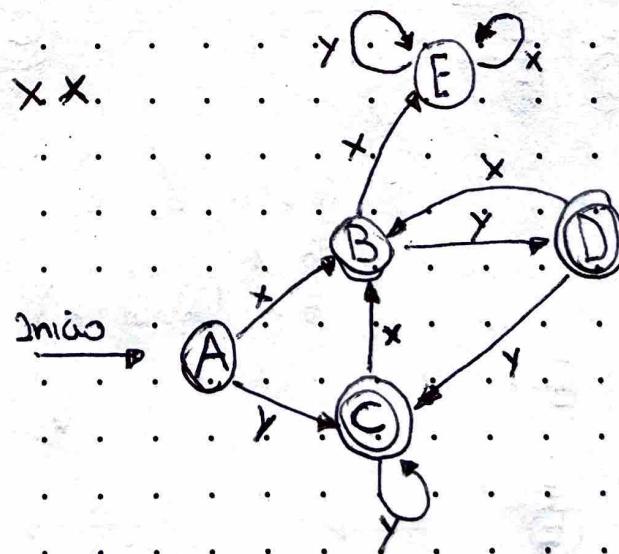


b) Cadena OK =  $x y x y$

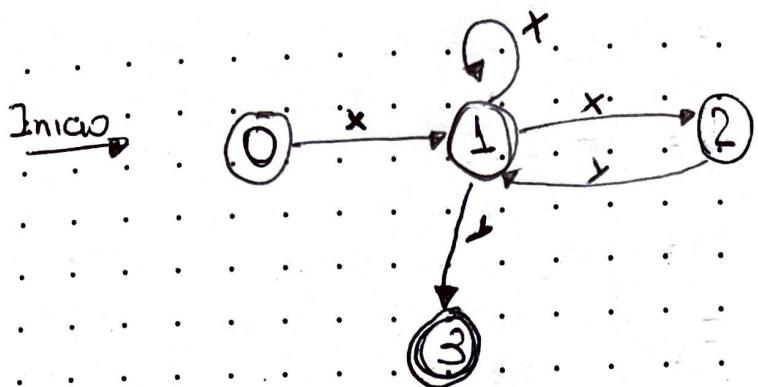
Cadena Incorrecta =  $x y x$  (queda en estado intermedio).

Cadena abortada =  $x x$

	x	y
A	B	C
B	E	D
C	B	E
D	B	E
E	E	E



$$2-) L = x \cdot x^* \cdot (x,y)^* \cdot y$$



b-) ~~xx.yy~~

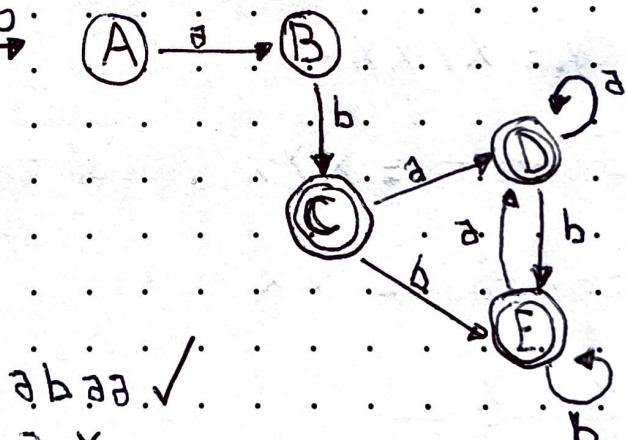
$$a = xx.yy$$

$0 \xrightarrow{x} 1 \xrightarrow{x} 2 \xrightarrow{y} 1 \xrightarrow{y} 3 \therefore$  Cadena Válida.

Ejercicios extra

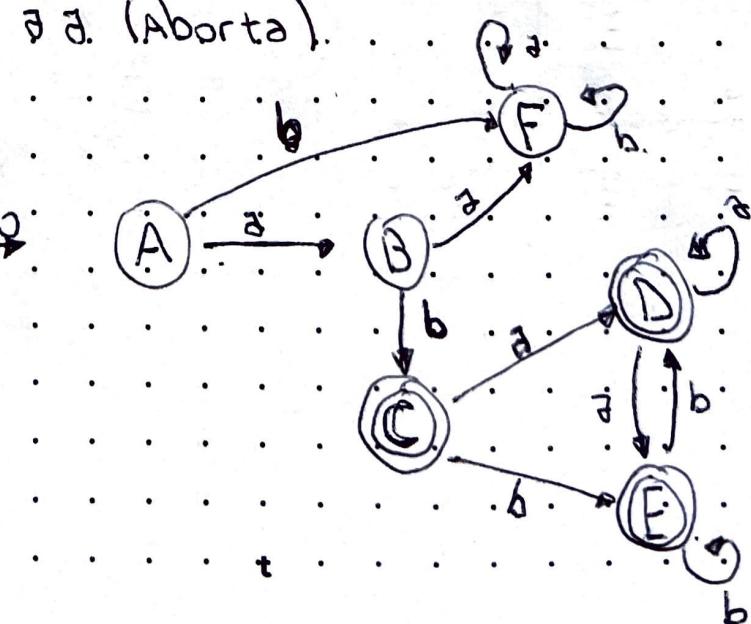
	a	b
A	B	
B		C
C	D	E
D		F
E	D	F
F	D	

2do

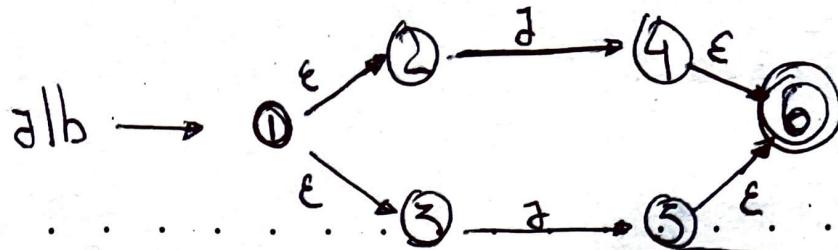


	a	b
A	B	F
B	F	C
C	D	E
D	D	E
E	D	E
F	F	F

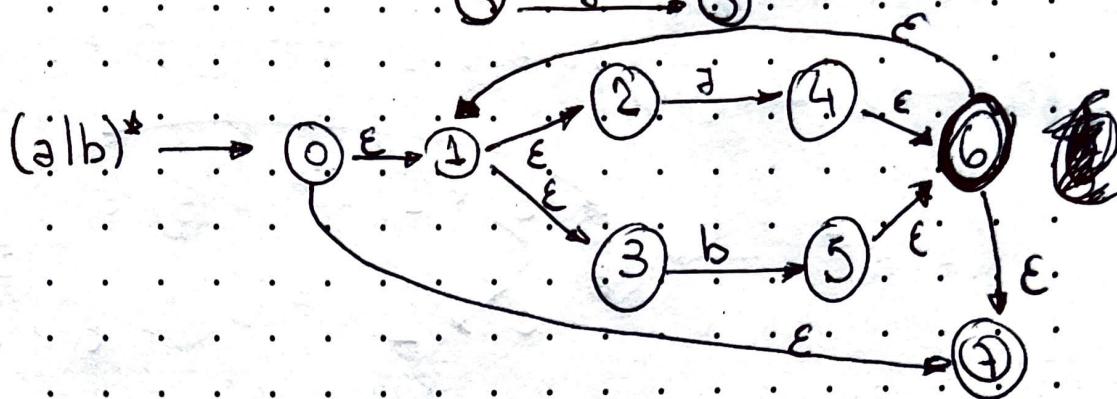
Inicio



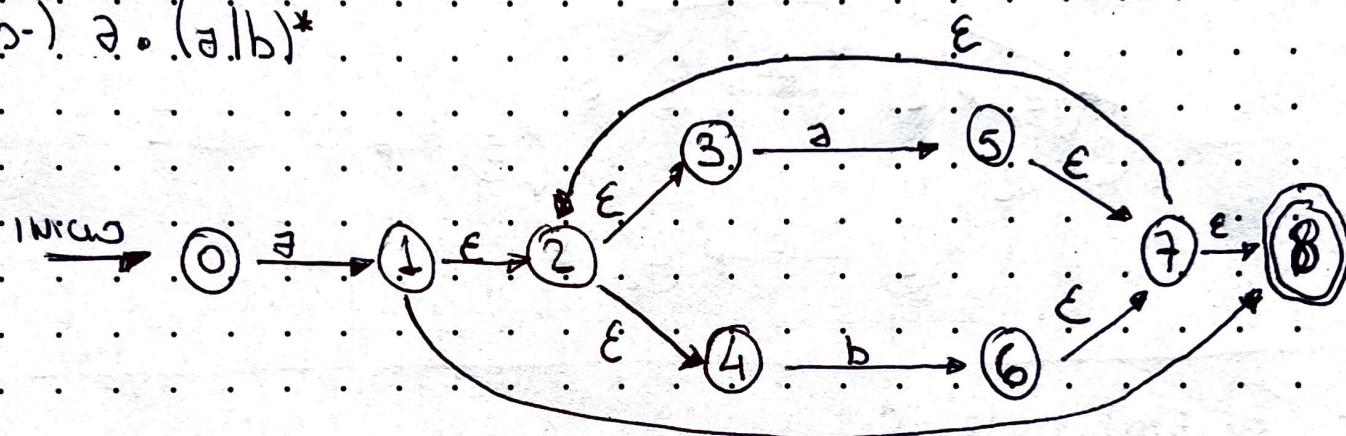
3-)



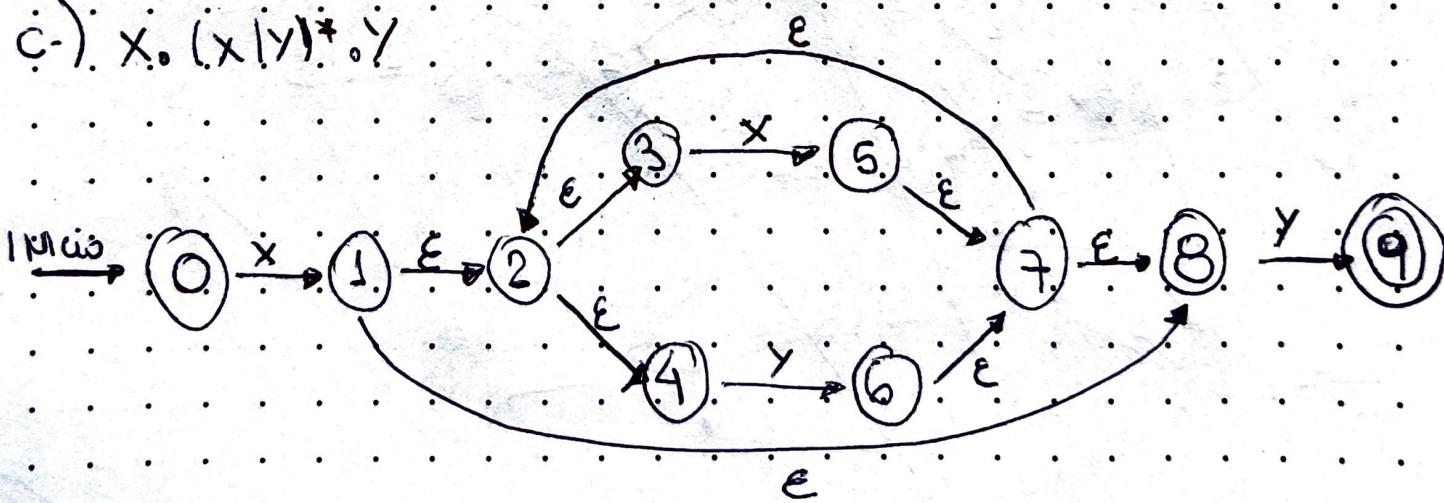
d-)  $(a|b)^*$



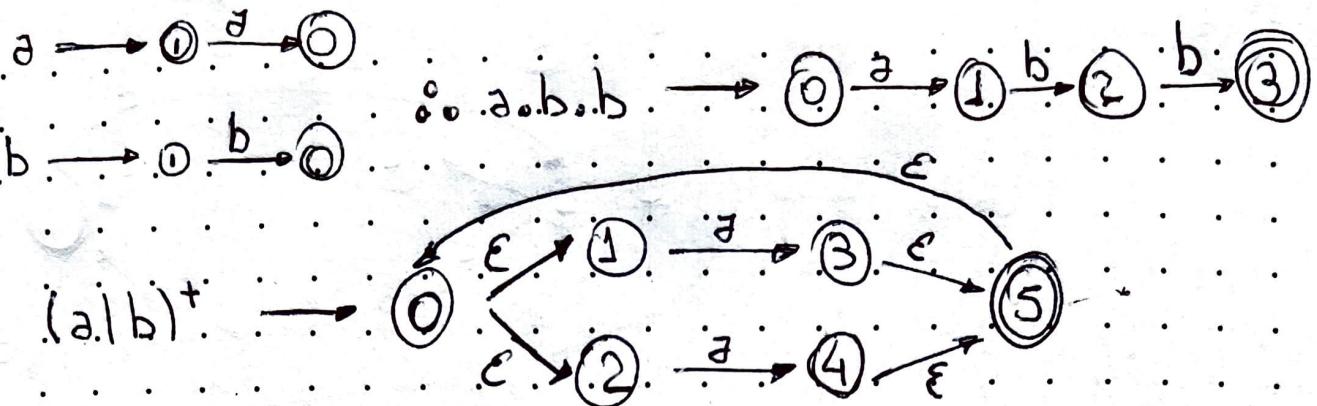
b-)  $\exists \circ (a|b)^*$



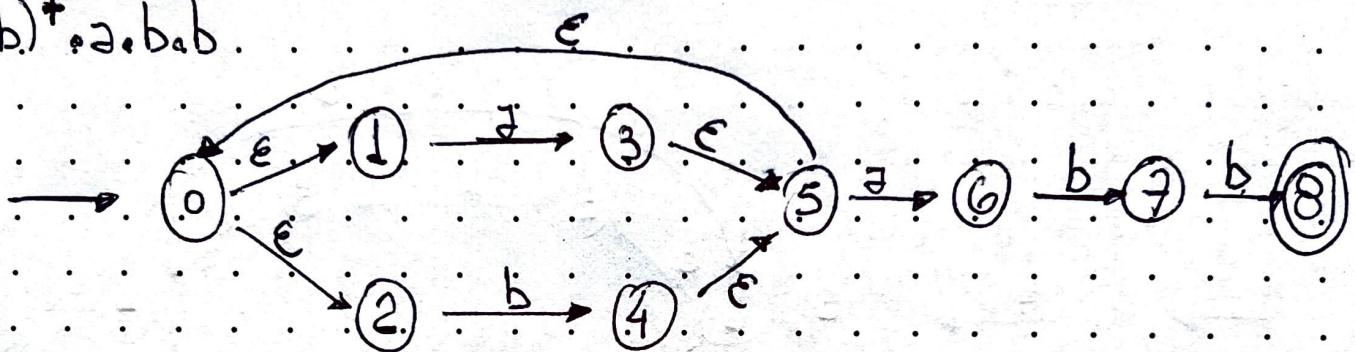
c-)  $x \circ (x|y)^* \circ y$



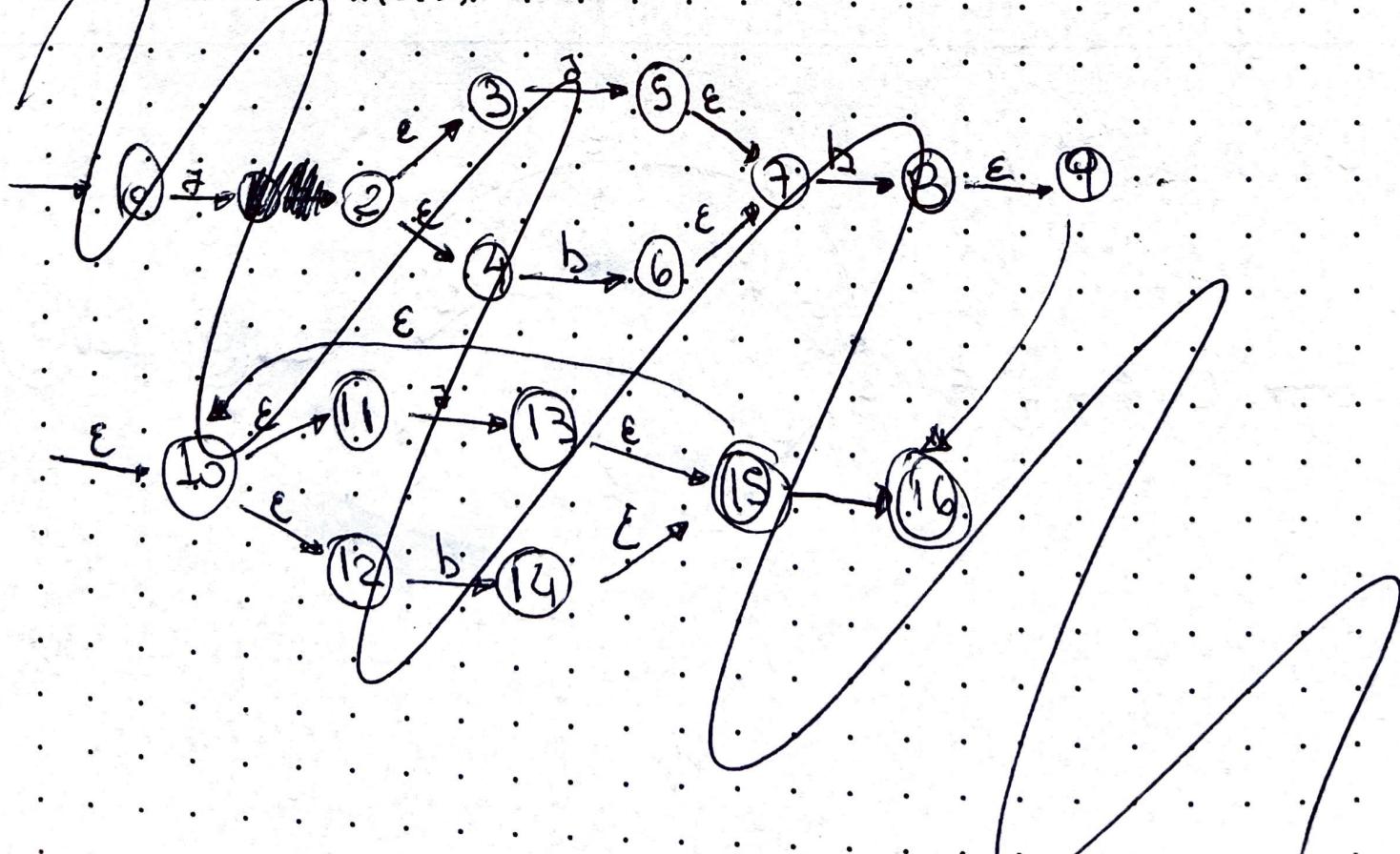
d-)  $(a|b)^+ \cdot a \cdot b \cdot b$



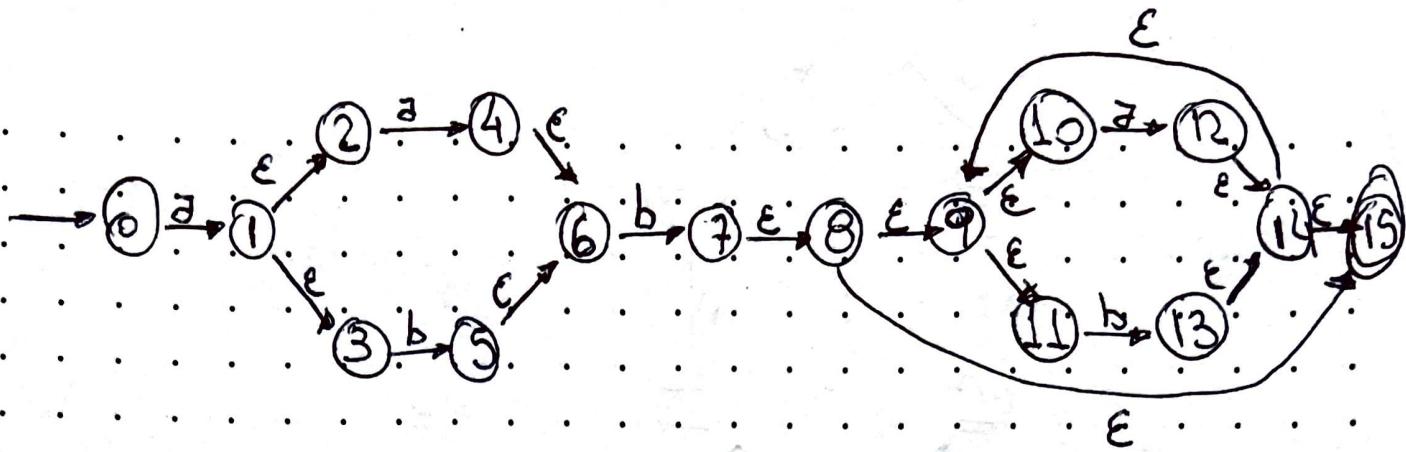
$(a|b)^+ \cdot a \cdot b \cdot a \cdot b$



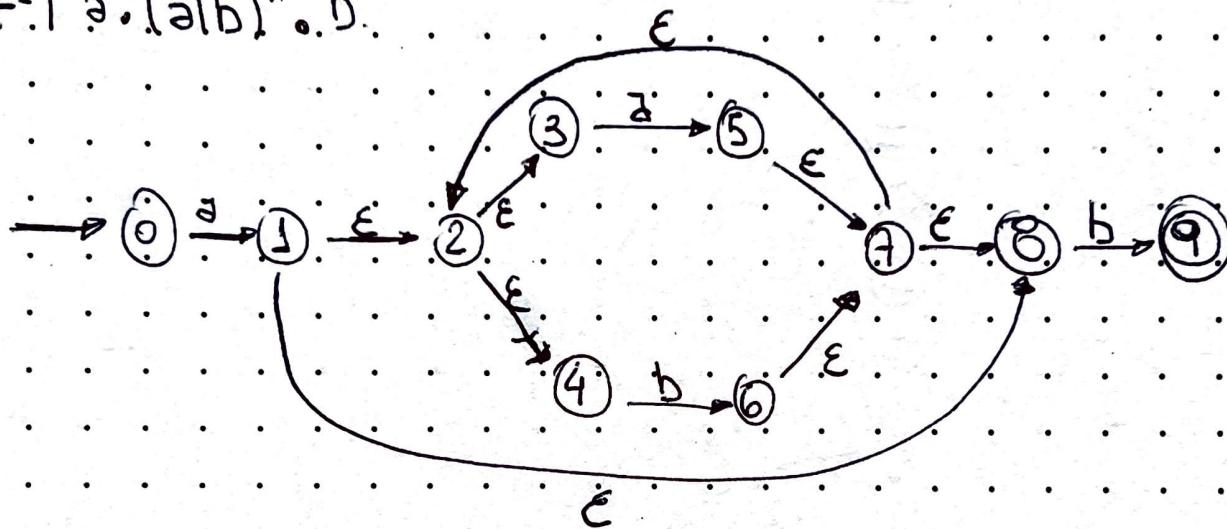
e-)  $a \cdot (a|b) \cdot b \cdot (a|b)^*$



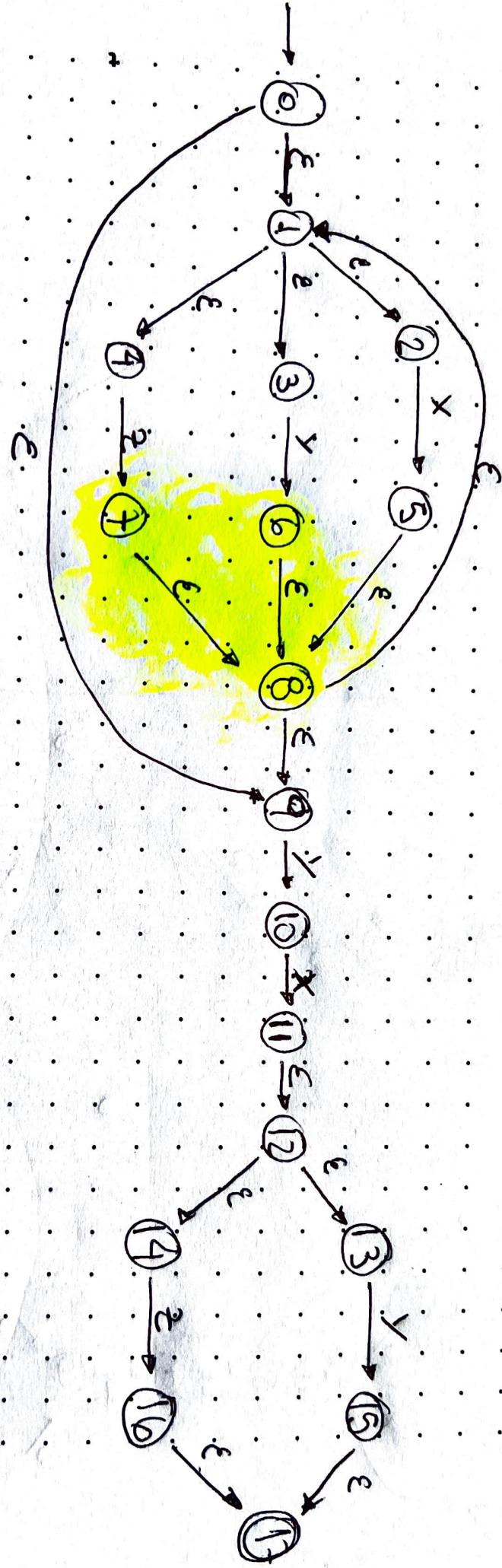
c-)  $a(a|b).b.(a|b)^*$



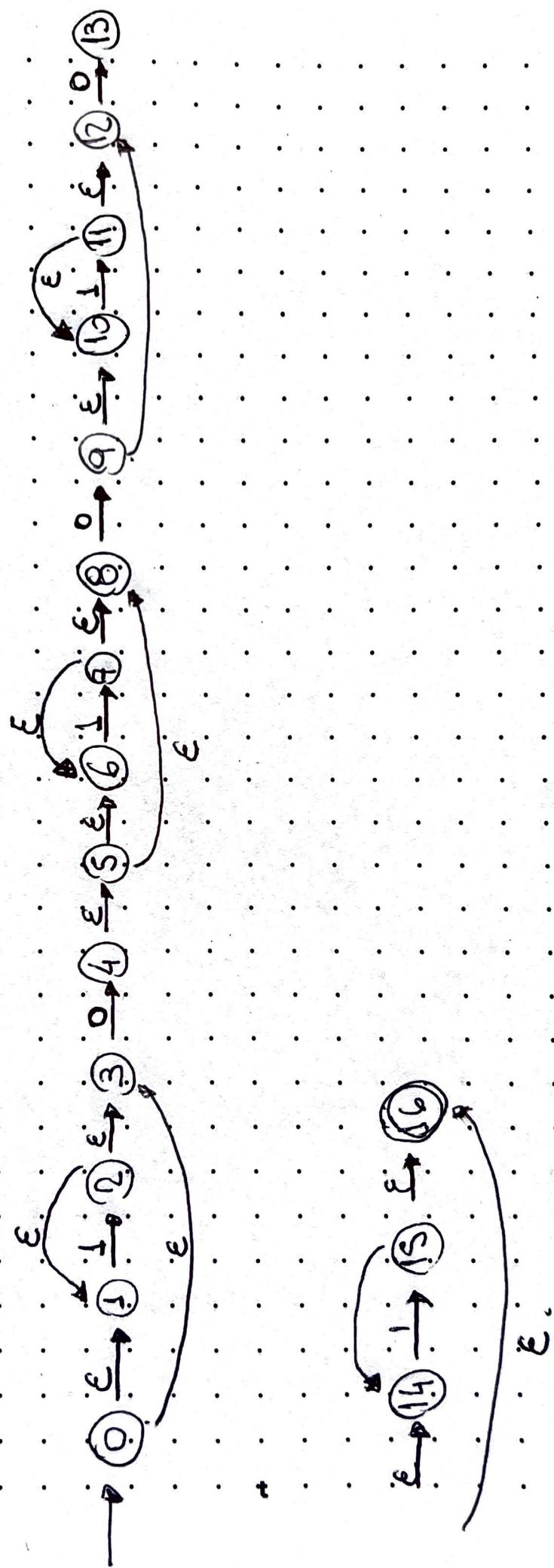
f-)  $a.(a|b)^*.b$



$$(-6)(x^2y^2) * (-x^3y^4)$$



$$4 - ((1)^* \cdot 0 \cdot (1)^* \cdot 0 \cdot (1)^* \cdot 0 \cdot (1)^*)$$



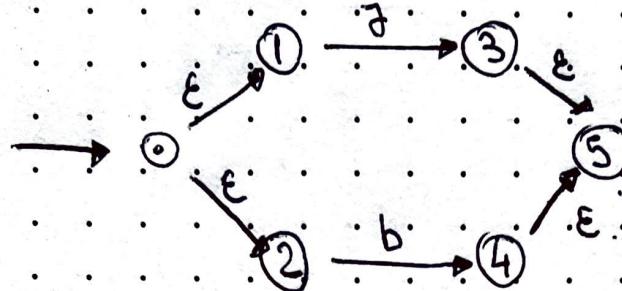
E



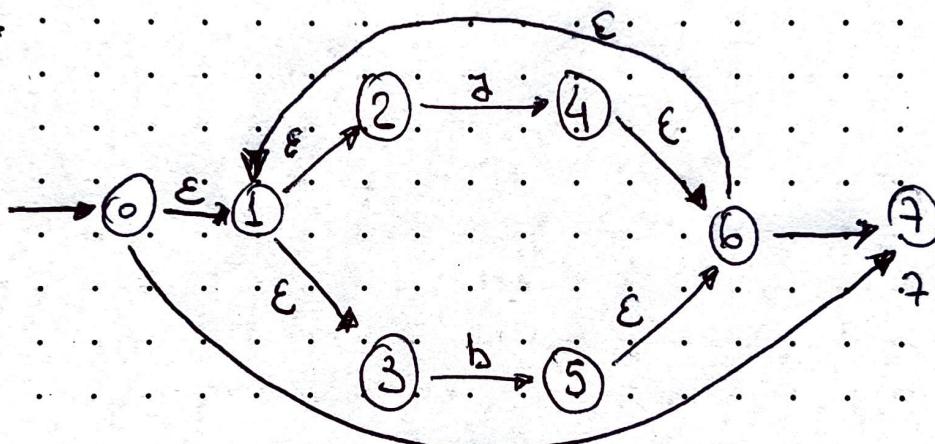
D



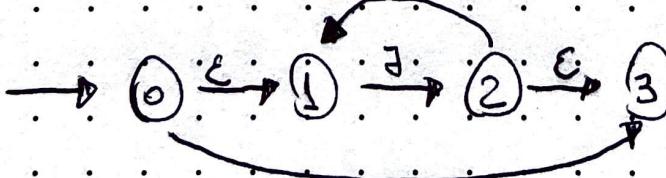
a|b



(a|b)\*



a a\*



(a.b)\*

