

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

1. $a...a$

$$ab^*b^3b^*a$$

$$L = \{ab^n a \mid n \geq 3\}$$

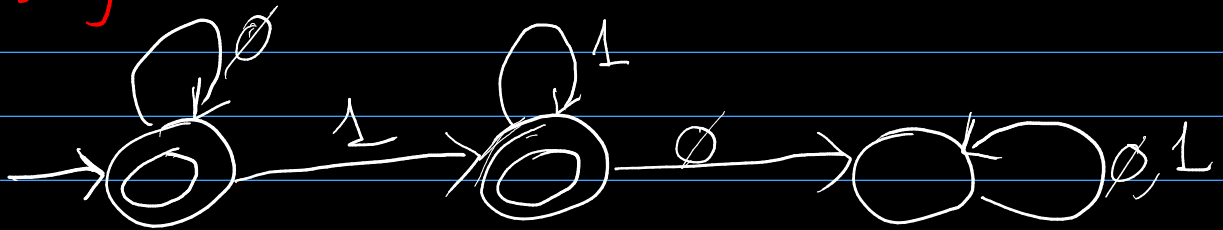
2. $A \rightarrow AaA \mid a$

$$\Sigma = \{a\}$$

$$L = \{a^{2n+1} \mid n \geq 0\}$$

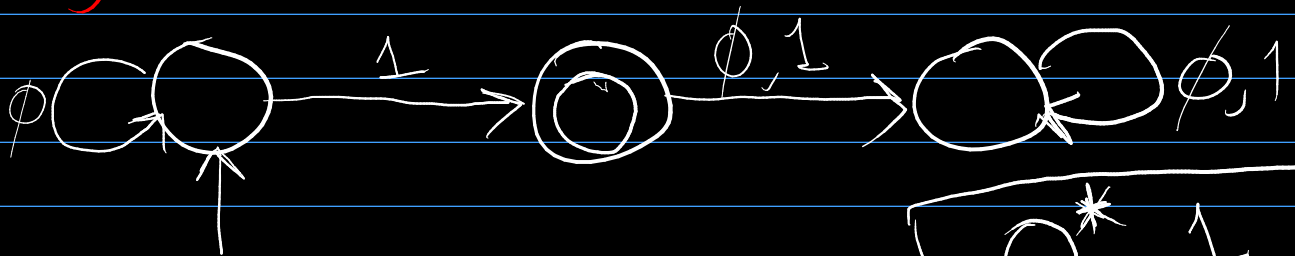
$a, AaA, AaAaA$
 $a aa, a a aa a$

3.a)



$$L = \{0^n 1^m \mid n, m \geq 0\} \quad [0^* 1^*]$$

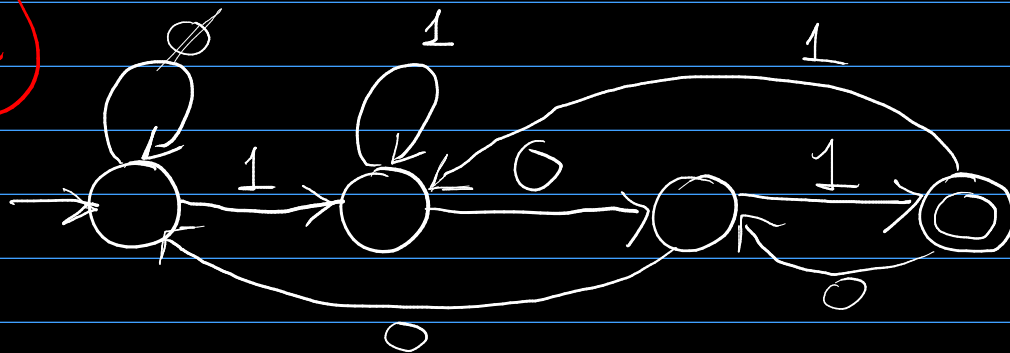
3.b)



$$L = \{0^n 1 \mid n \geq 0\}$$

$$[0^* 1]$$

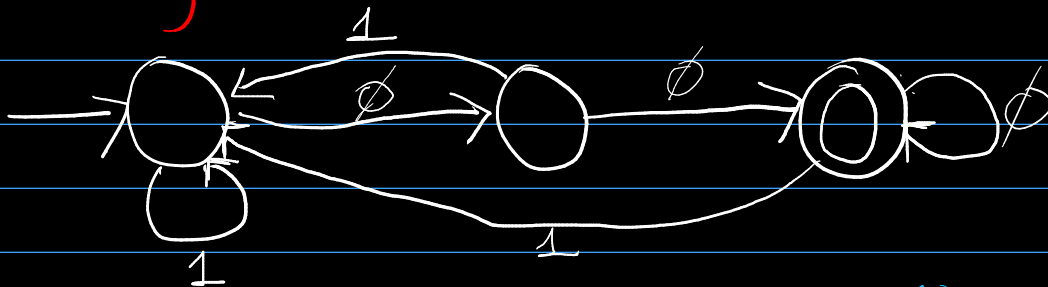
3.c)



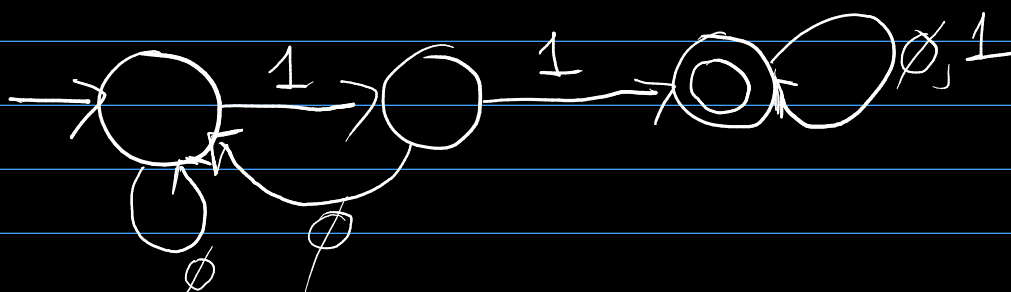
$$L = \{ (0^n 1^m)^k 101 \mid n, m, k \geq 0 \}$$

$$\underline{\underline{\{(0^* 1^*)^* 101\}}}$$

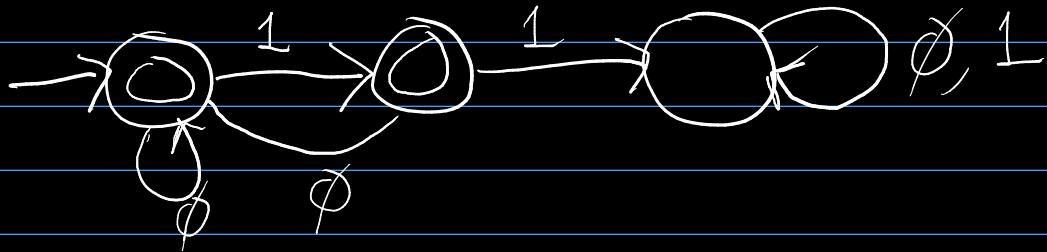
4.a) "Cadenas terminadas en 0^2 "



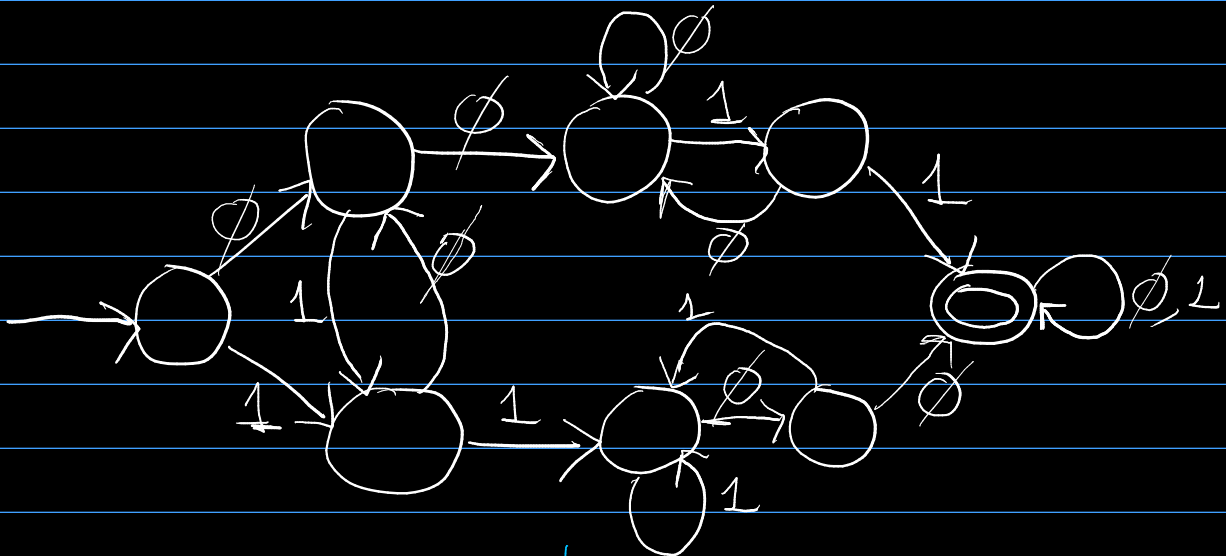
4.b) "Cadenas con 1^2 "



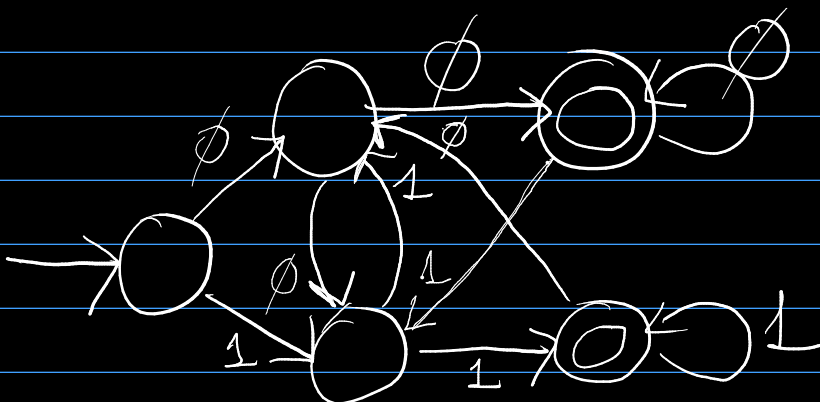
4.c) $\{^r Cadenas\ sin\ 1^2\}$



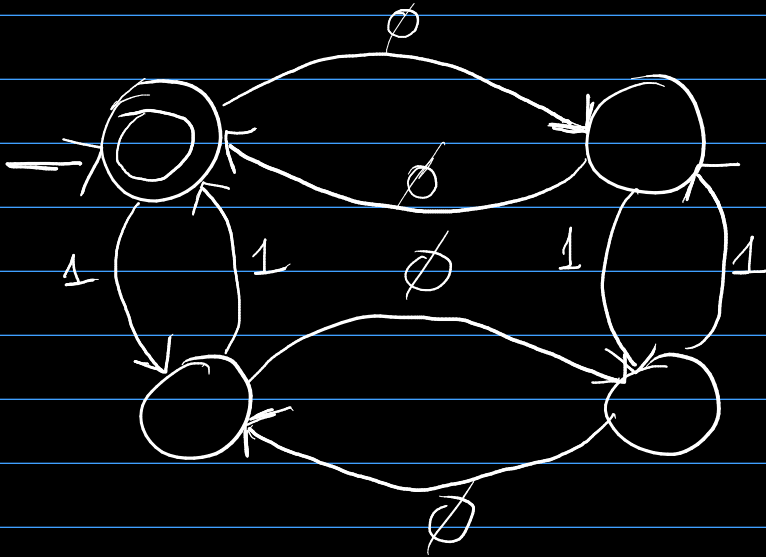
4.d) $\{^r Cadenas\ con\ 0^2\ y\ 1^2\}$



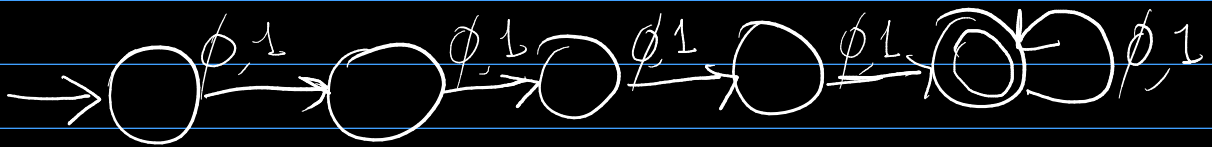
4.e) $\{^r Cadenas\ terminadas\ en\ 0^2\ o\ 1^2\}$



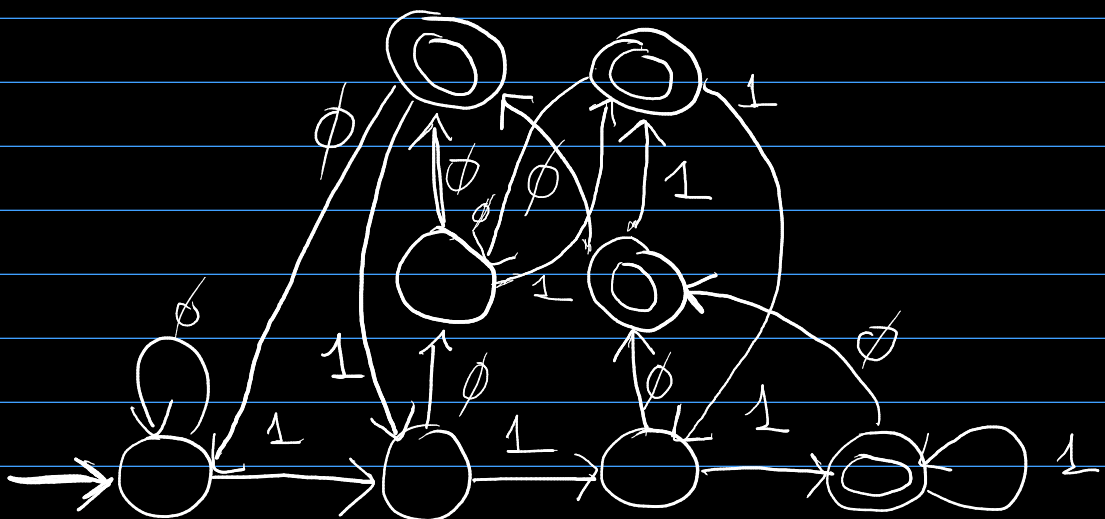
4.f) (Cadenas con 1^{2n} y 0^{2m})



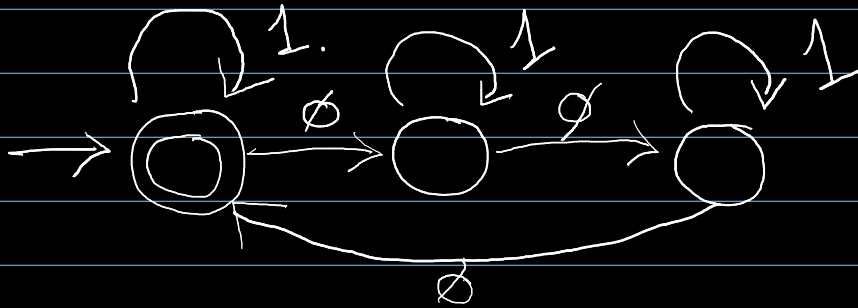
4.g) (Cadenas de longitud ≥ 4)



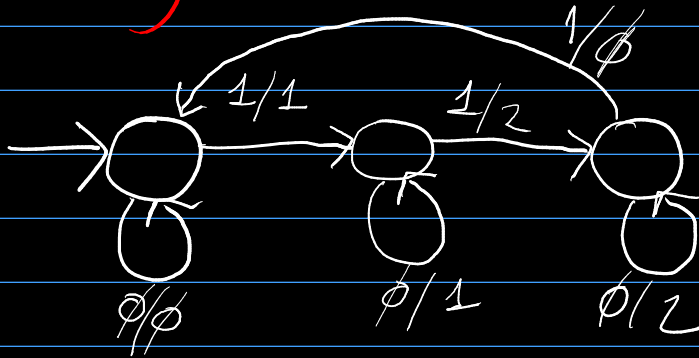
4.h) (Cadenas 1 en la anterior y última pos.)



4.i) \mathcal{R} (adenas de la forma 0^{3n+1})



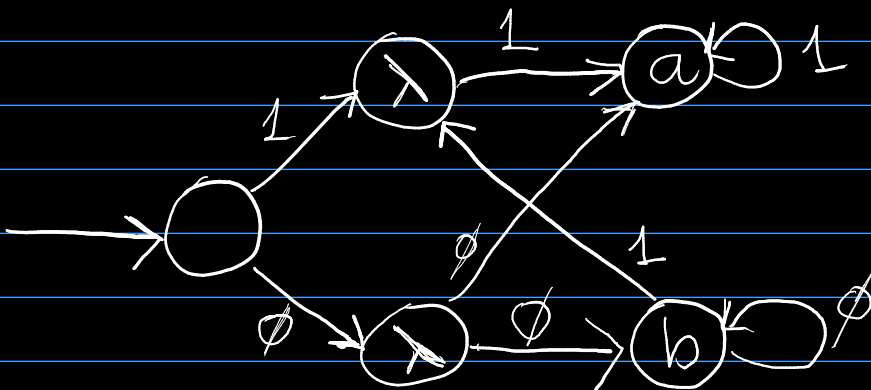
5.a) $\#1 \bmod 3$



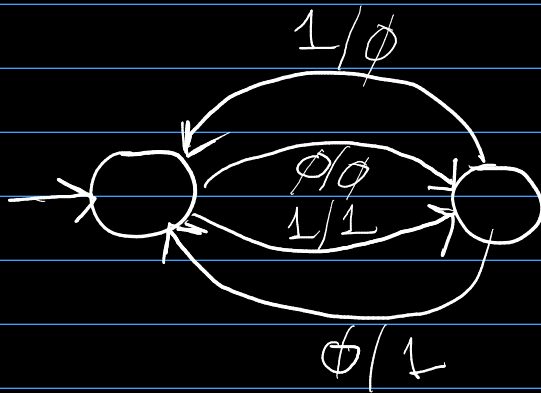
$$\Sigma_e = \{0, 1\}$$

$$\Sigma_s = \{0, 1, 2\}$$

5.b) $1^2 \rightarrow a, 0^2 \rightarrow b$



5.c) $0 \rightarrow 1 ; 1 \rightarrow 0$
 posición par.



5.d) $0^2, 1^2 \rightarrow s ; x \rightarrow n$

