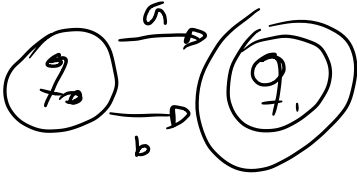


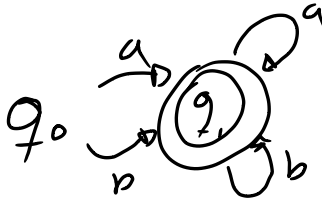
**Ejercicio 2.** Sea  $\Sigma = \{a, b\}$  un alfabeto, dar AFD's cuyo lenguaje aceptado sean los siguientes lenguajes:

- $L_1 = \Sigma$
- $L_2 = \Sigma^*$
- $L_3 = \{\alpha \in \Sigma^* : |\alpha| \text{ impar}\}$
- $L_4 = \{\alpha \in \Sigma^* : |\alpha|_a \text{ impar}\}$
- $L_5 = \{\alpha \in \Sigma^* : |\alpha|_a \text{ es m\u00faltiplo de 3}\}$

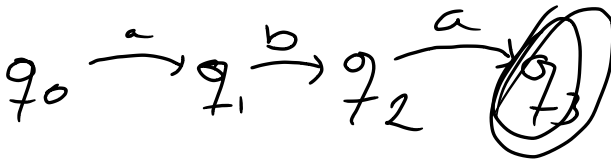
$$L_1 = \Sigma = \{a, b\}$$



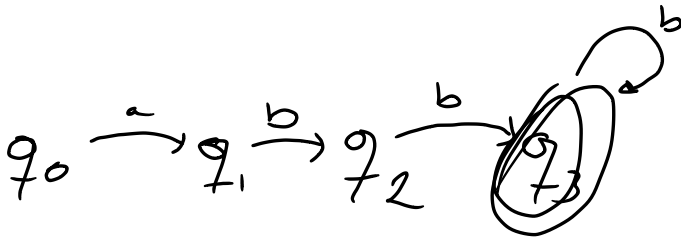
$$L_2 = \Sigma^*$$



$$L_3 = \{\alpha \in \Sigma^* : |\alpha| \text{ impar}\}$$



$$L_4 = \{\alpha \in \Sigma^* : |\alpha|_a \text{ impar}\}$$



$$L_5 = \{\alpha \in \Sigma^* : |\alpha|_a \text{ es m\u00faltiplo de 3}\}$$

