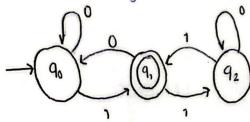


TAREA ACEPTADORES FINITOS DETERMINISTAS (DFA)

Centro de Ciencias Básicas
Computación Inteligente
Autómatas I
Israel De La Parra González
Jose Luis Sandoval Perez

ACEPTADORES INITOS DETERMINISTAS

1) Which of the slings Ofa in figure 2.1?

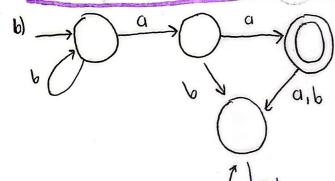


0001,01001,0000110 are acepted by the

ladena oooono

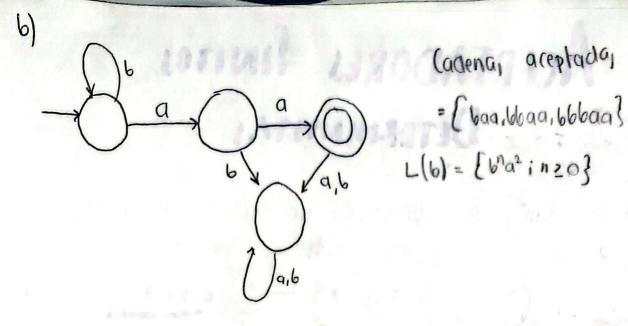
2 Expresor con notación de conjunto los lenguajes aceptados por los DFA

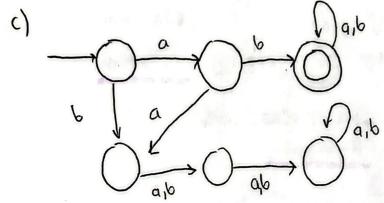
(adenas aceptadas Eh, a, aaaaaaaaaa, 30



Cadena, aceptada, = {aa, baa jobbbaa, bobbbbaa, 3

$$L(b) = \{b^n a^x; n \ge 0 \ y \ x = 2\}$$





(adena) aceptado,
= [aba, abb, abaa, abbb, ...]
L(c) = {abw; w \ Ea, b3*}

Give a set notation description of the language accepted by the automaton depicted in the following diagram. Can you think of a simple verbal characterization of the language:

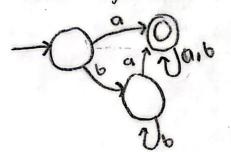
 $\frac{1}{a} = \{a, ba, ab, bab, aaab\}$

1. { pax wp: uso x =1 1 m & {0.10} }

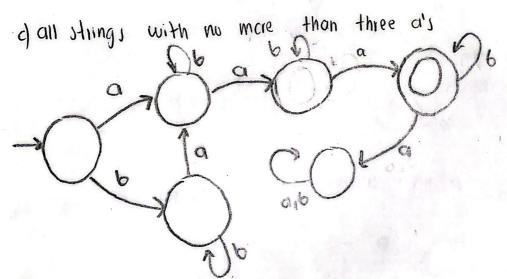
4) For Z={a,b}, construct. Ofa's that accept the sets consisting of a) all strings with exactly one a, ab

Cadena, aceptada, = fa,ab, ba, abbb. 3

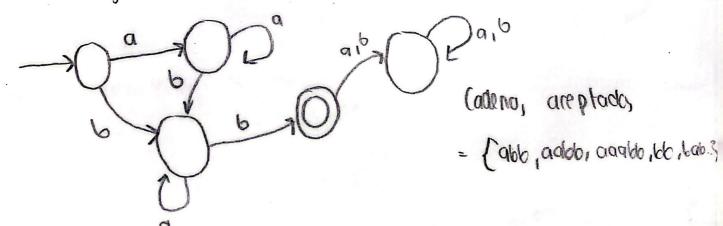
b) all strings with at least one a.



(adenos areptados = {a, aq, ad, ab, aba, abba, ...}

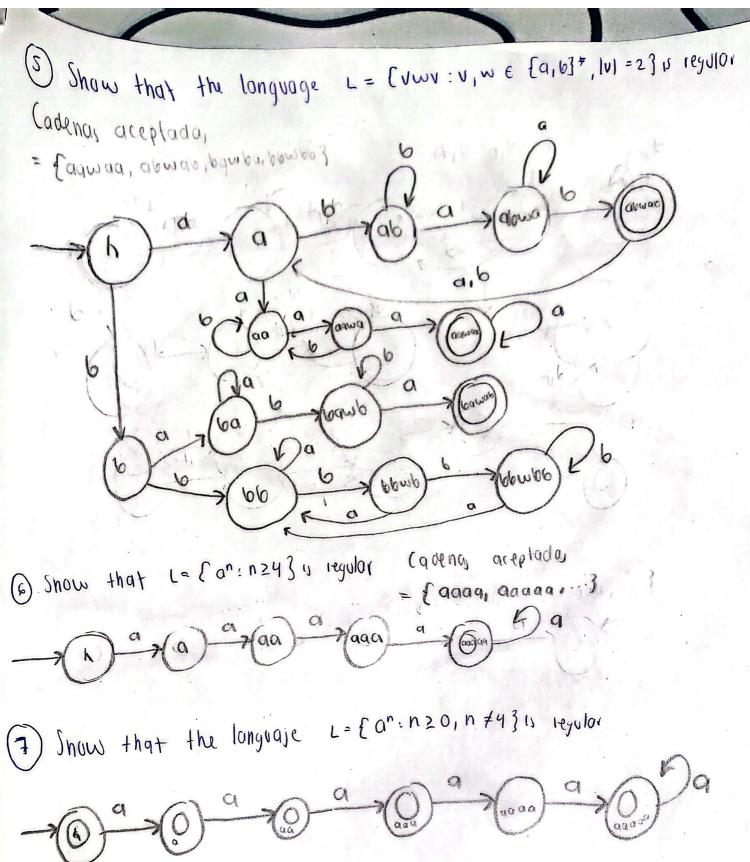


diali strings with at least one a and exactly two b's



e) all the strings with exactly two o's and more than two b's aabbb k Ta aga... a 6 1990.

illuste of the for a such exactly



Cadena suptados = {h, a, aa, aaa, aaaaa, aaaaaa, aaaaaa, s