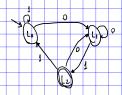


- 3. Pasar las siguientes expresiones regulares a autómatas finitos (mediante el método de las derivadas)
 - a) (0|1)*01
 - $b) \ (a(b|\lambda)|b^+)$

3.((r) = 9.((011) * 01) | 9.(x) = (017) * 01 | 1] | r

8, (L2) = 8, ((0|1)*0| (8, (X) = (0|1)*01] Lo



b) 20(10) = 20(0(11) | b) = 20(0(11)) | 20(6) = 20(0)(41) | e(0) 20(61) | 30(6) = (61) | 80 | 80 = 611 | L1

3,(Lo) = 3,6 (a (b|x) |b+) = 36 (a (b|x)) | 3, (b+) = 3,6 (a) (b|x) |e(a) 3,6 (b|x) | 3, (b+) = 0.-[0.-[0.-[b+-b]]]

 $\partial_{\alpha}(L_1) = \partial_{\alpha}(b_1 | \lambda) = \partial_{\alpha}(b_1) | \partial_{\alpha}(\lambda) = \emptyset | \partial = \emptyset$

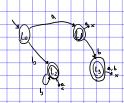
 $\partial_{\xi}(L_{1}) = \partial_{\xi}(b_{1}\lambda) = \partial_{\xi}(b_{2}) | \partial_{\xi}(\lambda) = \lambda | \Theta = \lambda | L_{s}$

∂ ((Lz) = ∂ ((+) = ∂ ((5)) + = Ø T

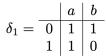
d, (Lz) = d, (1+) = d, (4) b * = b *] Lz

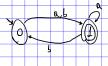
 $\partial_{\alpha}(L_{3}) = \partial_{\alpha}(\lambda) = \emptyset$

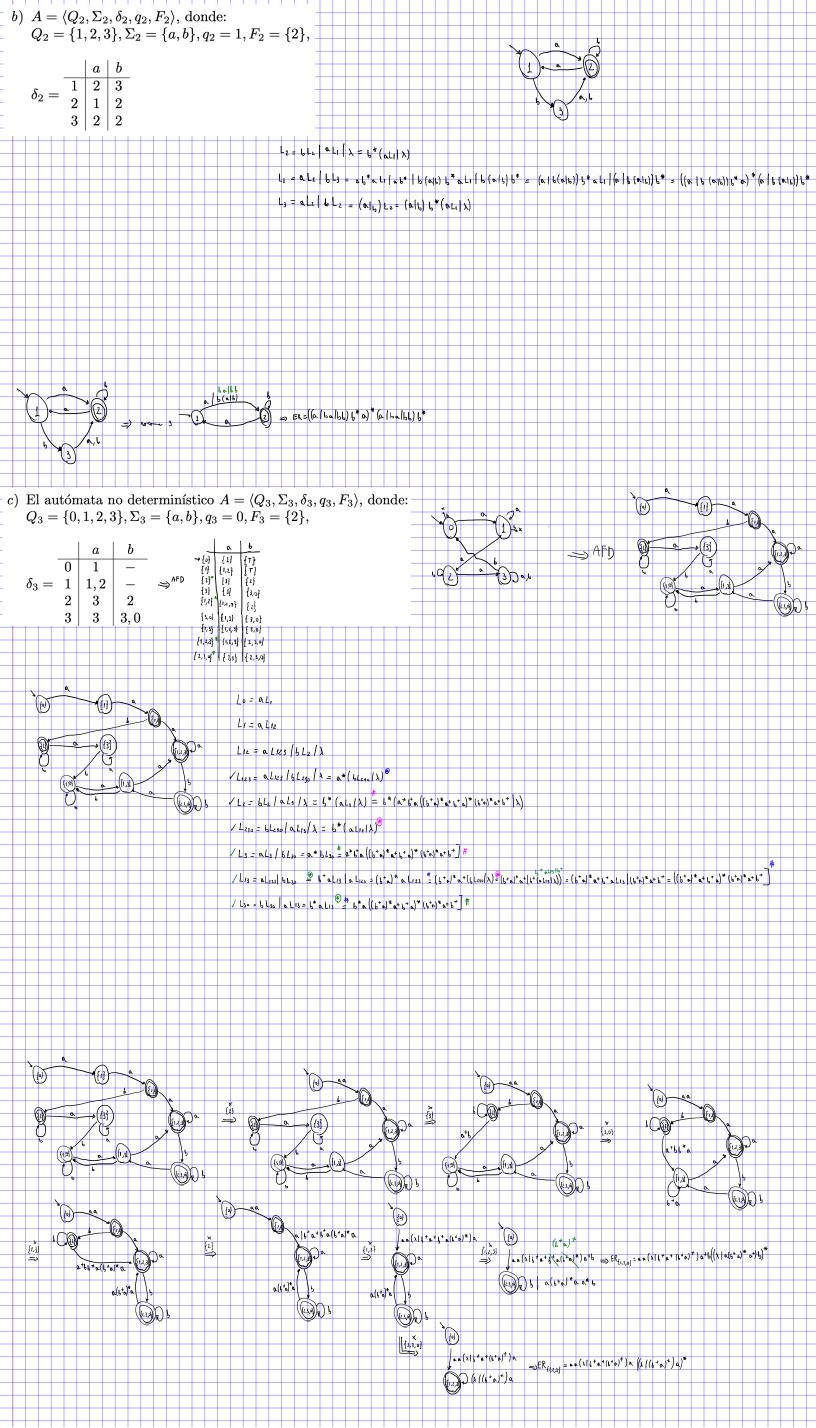
∂ ((La) = ∂ ((λ) = Ø] T



- 4. Pasar del autómata finito a la expresión regular los siguientes autómatas (mediante el método de las ecuaciones):
- a) $A = \langle Q_1, \Sigma_1, \delta_1, q_1, F_1 \rangle$, donde: $Q_1 = \{0, 1\}, \Sigma_1 = \{a, b\}, q_1 = 0, F_1 = \{1\}, \Gamma$







9. Para el AF
$$A = \langle \{0,1,2\}, \{a,b,c\}, \delta, 0, \{2\} \rangle$$
, donde

Sea L = L(A). Encontrar una expresión regular que denote el lenguaje $(L^{c})^{3}$ (donde L^{c} es el complemento de L).

