

1º Série Exercícios

1) a) $M = (\{a, b\}, \{q_1, q_2\}, \delta, q_1, \{q_2\})$

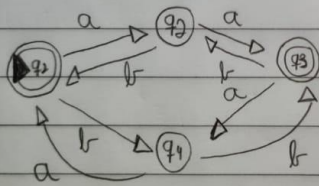
$$E.R = a^*b^{**}$$

b) $E.R = a(aa^*b-c)^*d$

c) $E.R = (a+b)^*(aa+bb)(a+b)^*$

2)

a)



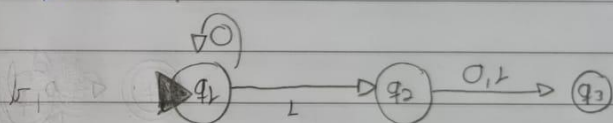
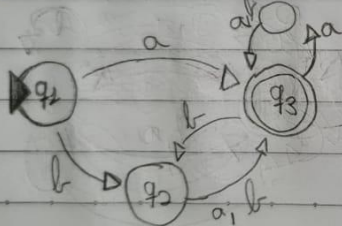
b) $E.R = [E + (a+b)(a+b)^*(a+b)]$

c) $\Gamma = \{S, A, B\}, \{a, b\}, p, S$

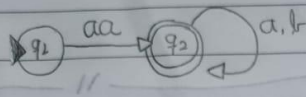
$$P = \{S \rightarrow aA / bA, A \rightarrow aA / bA / B, B \rightarrow a / b\}$$

3) a) $(aa+bb)^*(a+bb)$

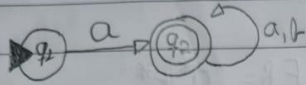
b) $(0+1)^*1(0+1)$



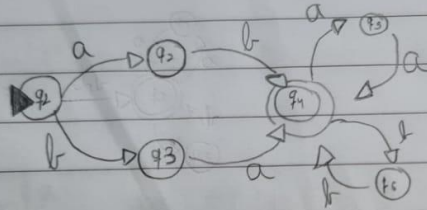
4/a)



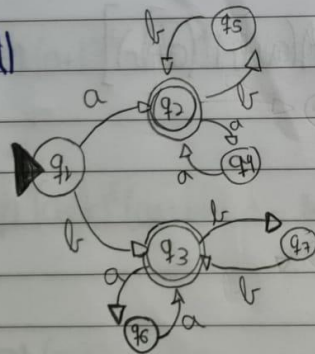
b)



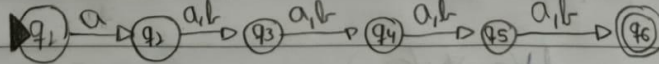
c)



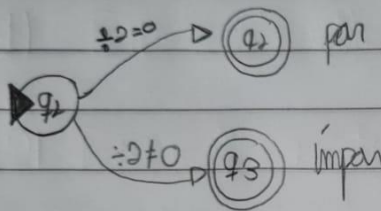
d)



e)



5)



6)

