Aluno: Mariana dos Santos

Questão 1

$S = \{ \varepsilon, a, bac, baa, bcabcaaa, \ldots \}$

$\vartheta = \{ \Sigma, \delta_1, Q, Q_0, F \}$

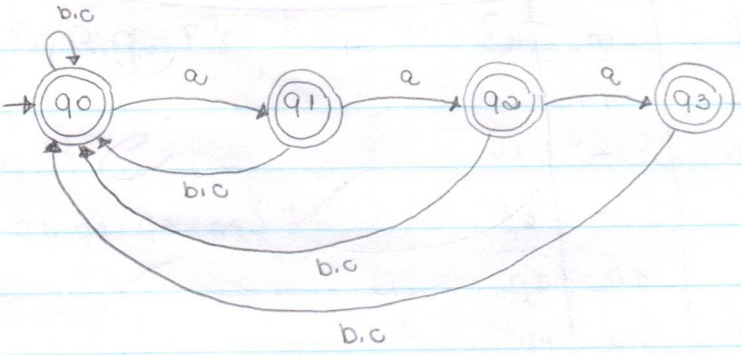
$\Sigma = \{a, b, c\}$

$Q = \{q_0, q_1, q_2, q_3\}$

$F = \{q_0, q_1, q_2, q_3\}$

Q_0

δ_1



δ_1	a	b	c
q_0	$\{q_1\}$	$\{q_0\}$	$\{q_0\}$
q_1	$\{q_2\}$	$\{q_0\}$	$\{q_0\}$
q_2	$\{q_3\}$	$\{q_0\}$	$\{q_0\}$
q_3	–	$\{q_0\}$	$\{q_0\}$

questão 2

$\Sigma = \{a, b, c, d\}$? Expressões Regulares?

a.

$(bcd)^*(a+\varepsilon)(bcd)^*(a+\varepsilon)(bcd)^*(a\,a)(bcd)^*$

Não a+b tá tendo nada?

$= (b+c+d)^*$? ×

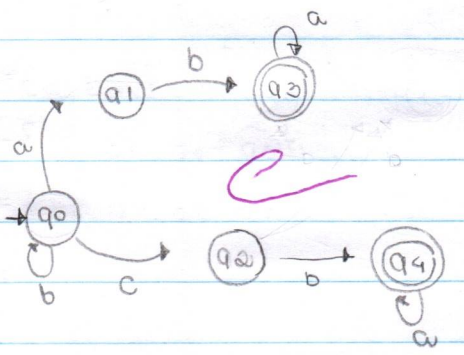
b. $(a^*c^*d^*.(bbb).(bb)^*)^+$ ×

b → ímpar

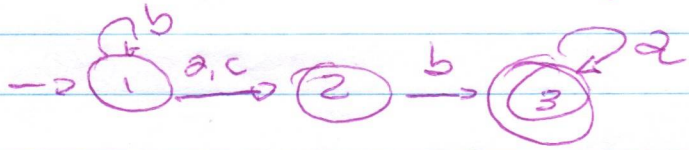
↳ ≥ 3

Questão 3

AFNe → AFD



Poderia ser + simples.



AFD!

$\mathfrak{I} = \{\Sigma, \delta_2, Q, q_0, F\}$

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

$Q = \{q_0, q_1, q_2, q_3, q_4\}$

$F = \{q_3, q_4\}$

δ_2	a	b	c
q_0	q_1	q_0	q_2
q_1	–	q_3	–
q_2	–	q_4	–
q_3	q_3	–	–
q_4	q_4	–	–

$[(b^*aba^*) + (b^*cba^*)]$