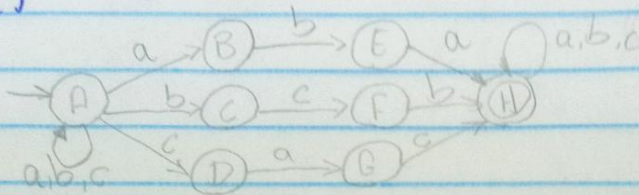


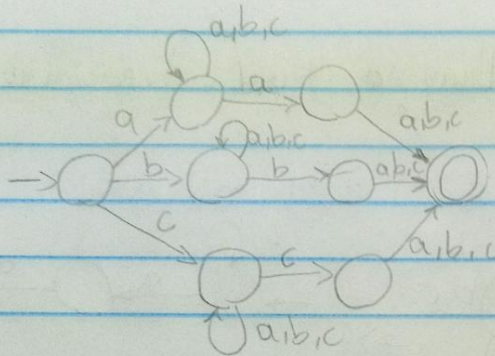
Lista 5:

Nome: Gustavo de Assis Xavier

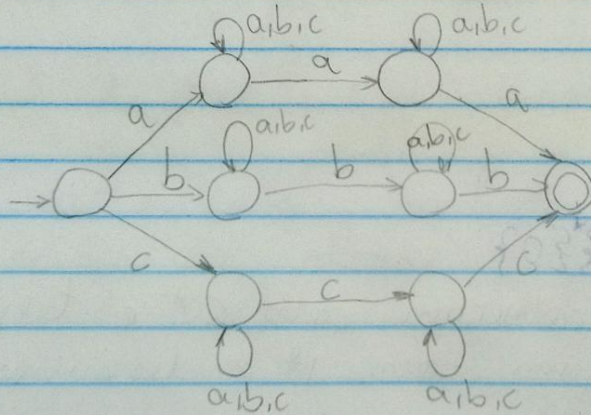
1.a)



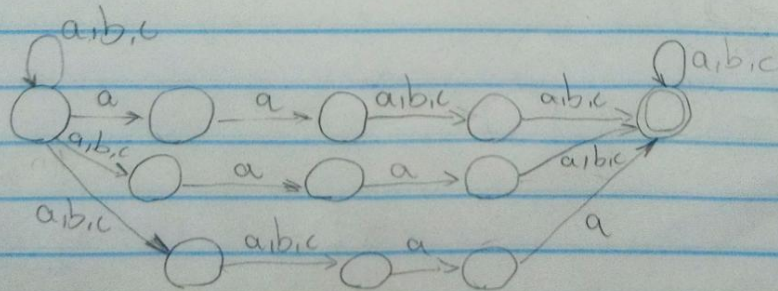
b)



c)

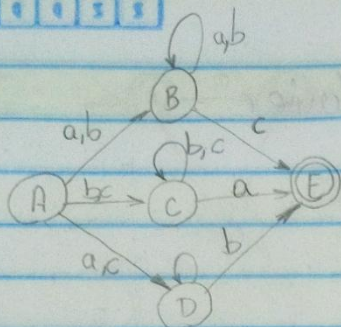


d)

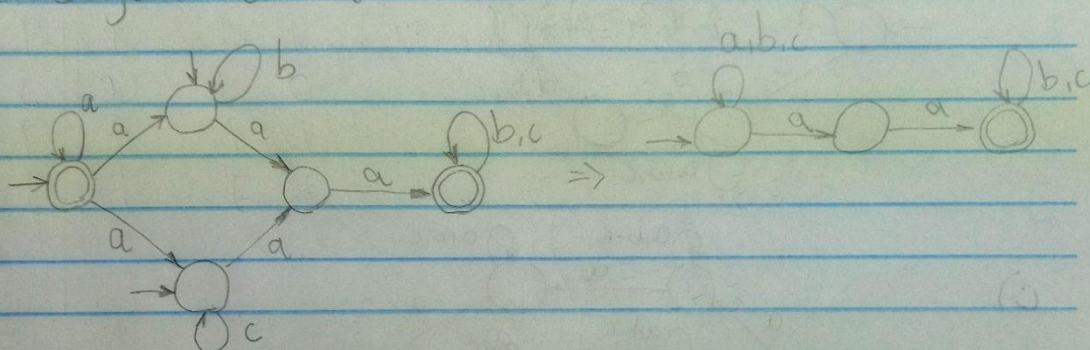


D S T Q Q S S

e)

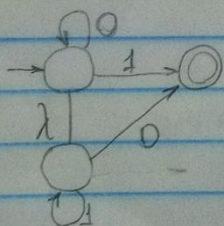


2) Método: Olhar o que entra no estado de origem do λ .



$$3) L = \{0^*1^*0\} \cup \{1^*0^*\}$$

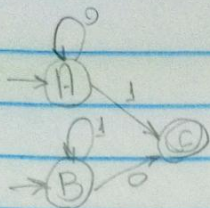
↳ Palavras que começam com 0^* e terminam com 1, ou começam com 1^* e terminam com 0.



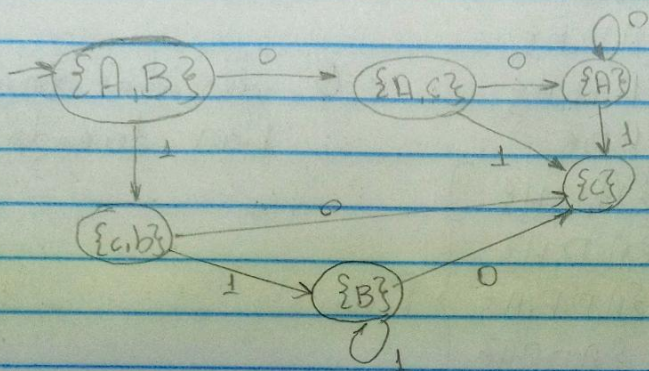
AFD

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

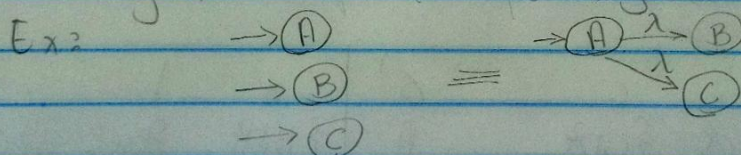
b)



| | 0 | 1 | 0' | 1 |
|---|----|----|-------|-------|
| A | A | C | {A,B} | {A,C} |
| B | C | B | {A,C} | {A} |
| C | {} | {} | {C,B} | {C} |



4) O λ permite que mudemos de estado de forma "gratuita", sendo assim, podemos conectar todas as entradas ou estágios finais em "um" só estágio, sem alterar a lógica.



Com isso, podemos juntar entradas ou saídas em um único estágio.

5) a)

| | a | b | c |
|---|-------|-------|-------|
| A | {A,B} | {A,C} | {A,D} |
| B | | E | |
| C | | | F |
| D | G | | |
| E | H | | |
| F | | H | |
| G | | | H |
| H | H | H | H |

D S T A G S S

| δ' | a | b | c | |
|---------------|---------------|---------------|---------------|---------|
| A | $\{A,B\}$ | $\{A,C\}$ | $\{A,D\}$ | Entrada |
| $\{A,B\}$ | $\{A,B\}$ | $\{A,C,E\}$ | $\{A,D\}$ | |
| $\{A,D\}$ | $\{A,B,G\}$ | $\{A,C\}$ | $\{A,D\}$ | |
| $\{A,C\}$ | $\{A,B\}$ | $\{A,C\}$ | $\{A,D,F\}$ | |
| $\{A,C,E\}$ | $\{A,B,H\}$ | $\{A,C\}$ | $\{A,D,F\}$ | |
| $\{A,B,G\}$ | $\{A,B\}$ | $\{A,C\}$ | $\{A,D,H\}$ | |
| $\{A,D,F\}$ | $\{A,B\}$ | $\{A,C,H\}$ | $\{A,D\}$ | |
| $\{A,B,H\}$ | $\{A,B,H\}$ | $\{A,C,E,H\}$ | $\{A,D,H\}$ | |
| $\{A,D,H\}$ | $\{A,B,G,H\}$ | $\{A,C,H\}$ | $\{A,D,H\}$ | |
| $\{A,C,H\}$ | $\{A,B,H\}$ | $\{A,C,H\}$ | $\{A,D,F,H\}$ | |
| $\{A,C,E,H\}$ | $\{A,B,H\}$ | $\{A,C,H\}$ | $\{A,D,F,H\}$ | |
| $\{A,B,G,H\}$ | $\{A,B,H\}$ | $\{A,C,H\}$ | $\{A,D,H\}$ | |
| $\{A,D,F,H\}$ | $\{A,B,H\}$ | $\{A,C,H\}$ | $\{A,D,H\}$ | |

o presente von
ficar devendo.

Finalis

b) "

c) "

d) "

| e) | δ | a | b | c | δ' | a | b | c |
|----|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | A | $\{B,D\}$ | $\{B,C\}$ | $\{C,D\}$ | A | $\{B,D\}$ | $\{B,C\}$ | $\{C,D\}$ |
| | B | B | B | E | $\{B,D\}$ | $\{B,D\}$ | $\{B,E\}$ | $\{B,D\}$ |
| | C | E | C | C | $\{C,D\}$ | $\{E,D\}$ | $\{C,E\}$ | $\{C,D\}$ |
| | D | D | E | D | $\{B,E\}$ | $\{B\}$ | $\{B\}$ | $\{D\}$ |
| | E | $\{\}$ | $\{\}$ | $\{\}$ | $\{B,C\}$ | $\{B,E\}$ | $\{B,C\}$ | $\{E,C\}$ |
| | | | | | $\{E,C\}$ | $\{E\}$ | $\{C\}$ | $\{C\}$ |
| | | | | | $\{C\}$ | $\{E\}$ | $\{C\}$ | $\{C\}$ |

sem Desenho tambem