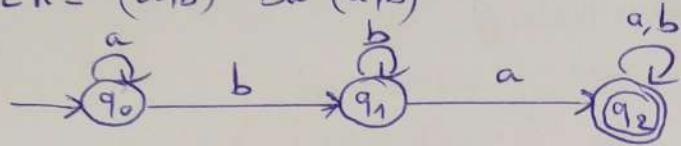


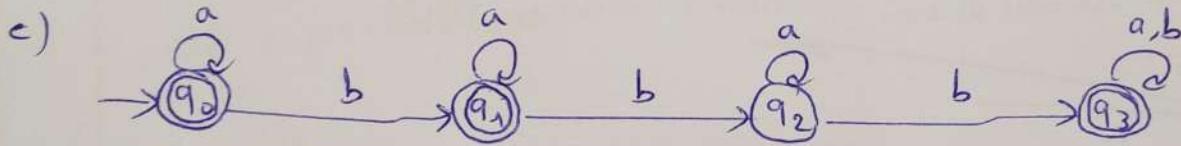
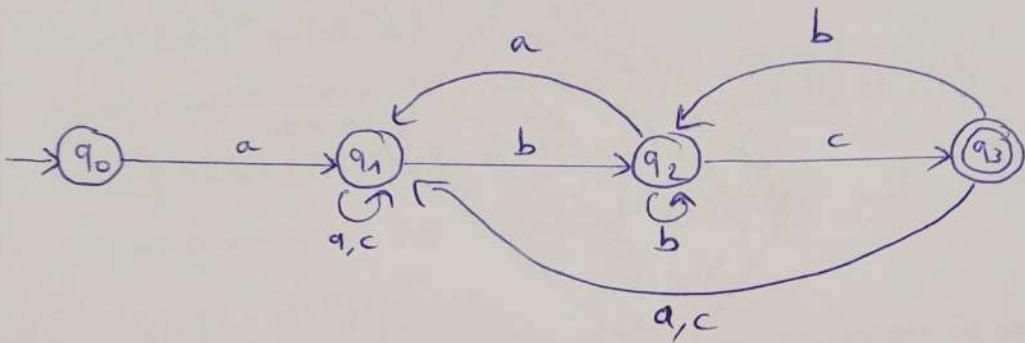
TDA : Analyse lexicale :

Exercise 3:

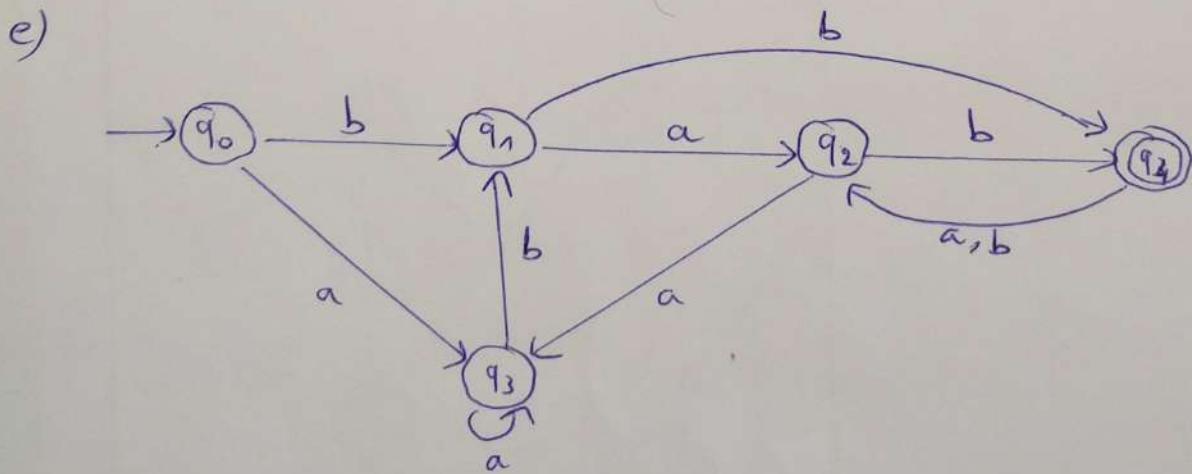
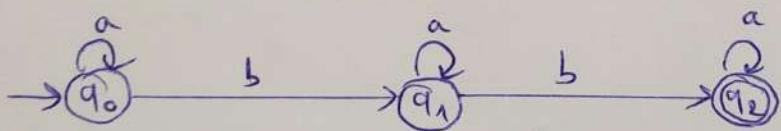
a) $ER = (\alpha \mid b)^* ba (\alpha \mid b)^*$



b) $ER = \alpha (\alpha \mid b \mid c)^* bc$



d) $ER = a^* b a^* b a^*$



f)

Question 2:

$$ER = (ab)^* a?c^* + (ba)^* b?c^*$$

Question 3:

- $(a+b^*)^* + b(a+(b+a)^*)^*$

— cette expression — contient le mot vide.

- $(1+a)(aa^* + bb^*a)^*$

— cette expression ne — contient pas le mot vide.

- $(1+a)(1+b)(1+c)(1+d)(e+f)$

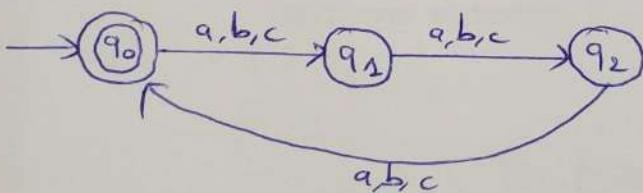
— cette expression ne — contient pas le mot vide.

- $(a+(b+(c+d)^*)^*)^*$

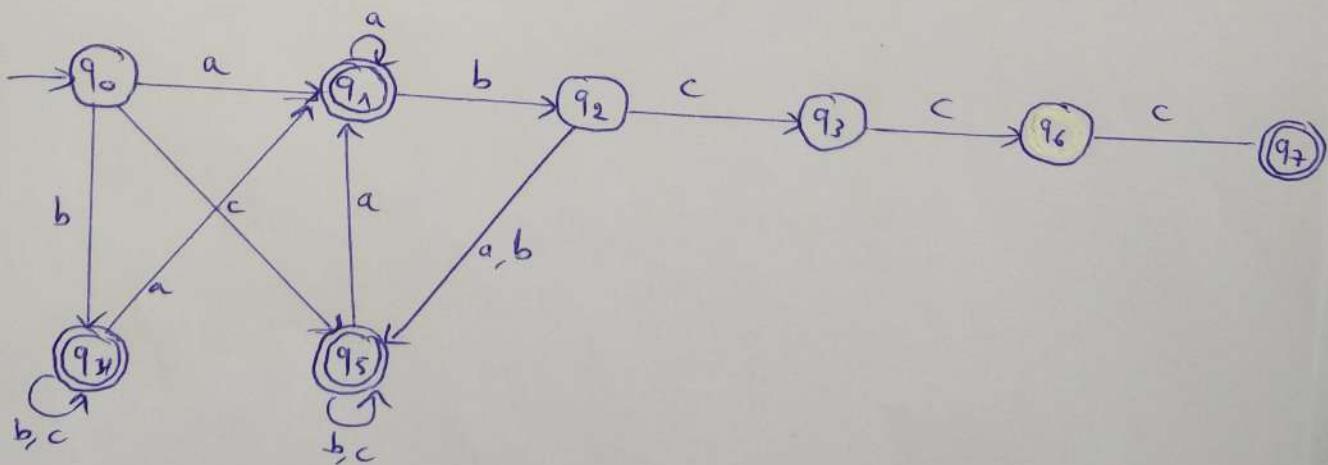
— cette expression — contient le mot vide.

Exercice 4:

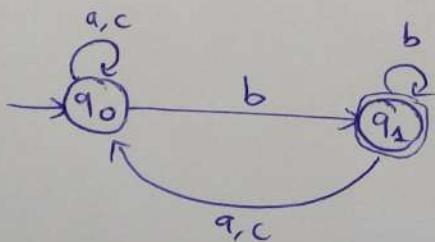
a)



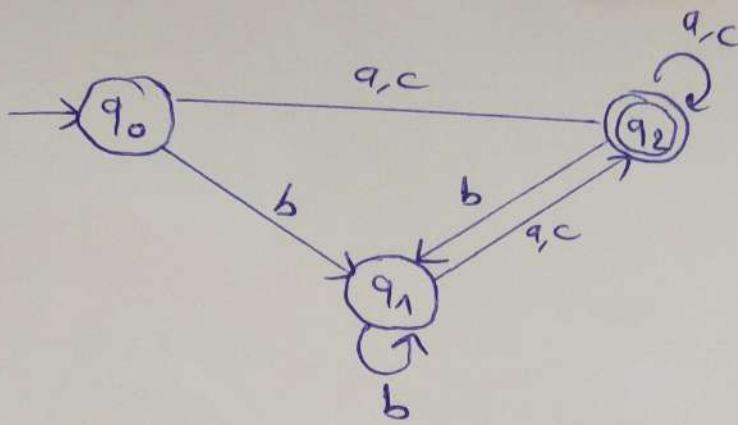
b)



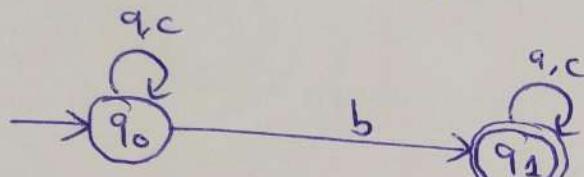
c)



d)



e)



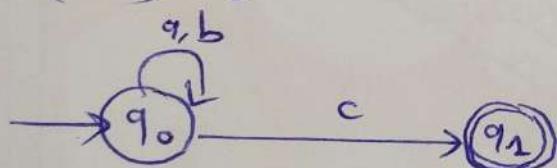
f)



h)

Exercice 6:

a) $(a+b)^* c$



b) $a^* (\varepsilon + bb)a + \varepsilon$

