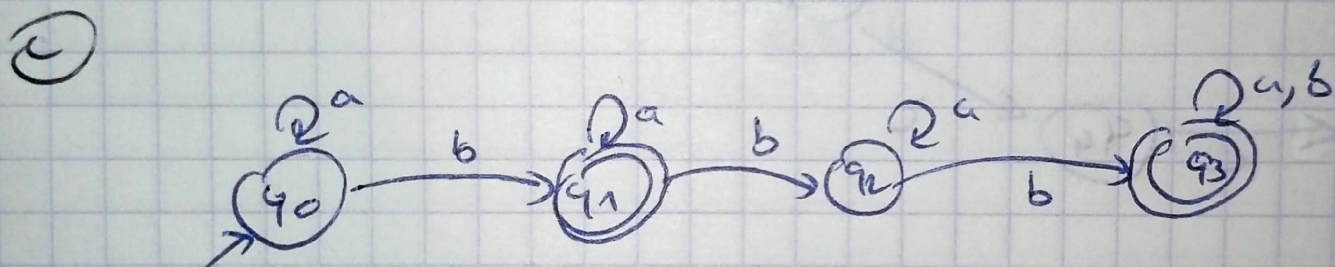
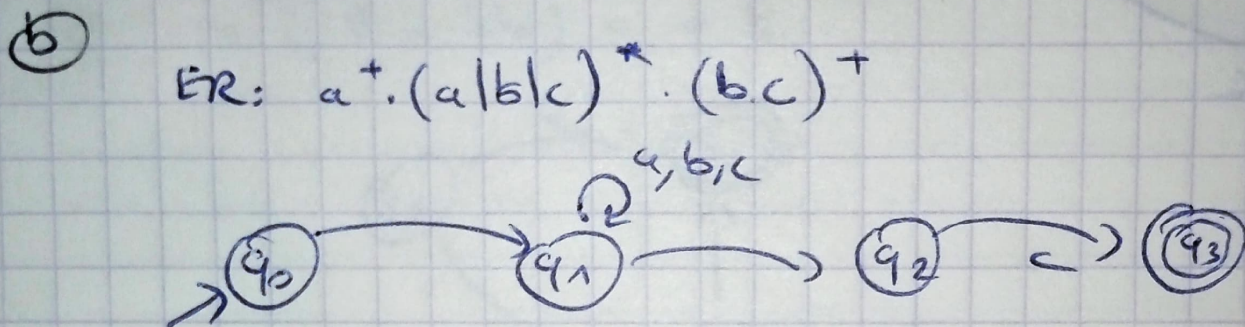
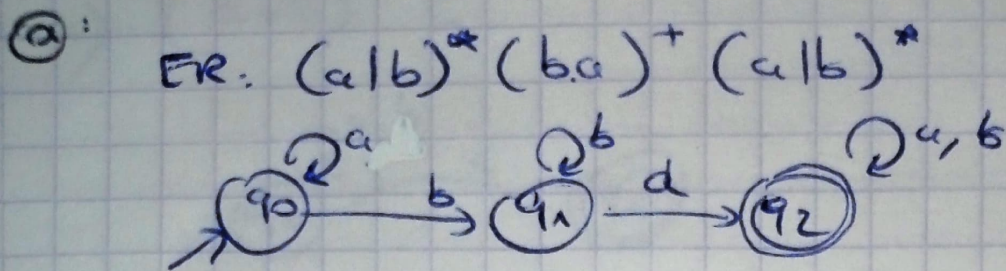
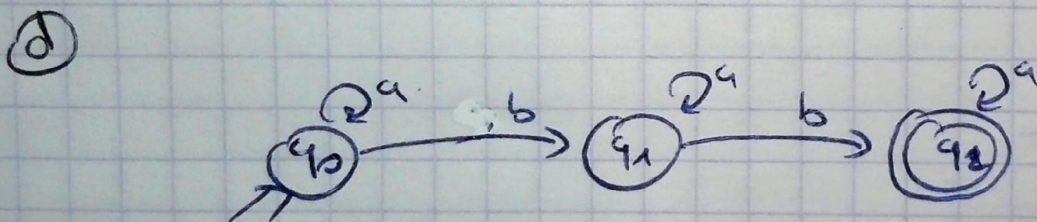


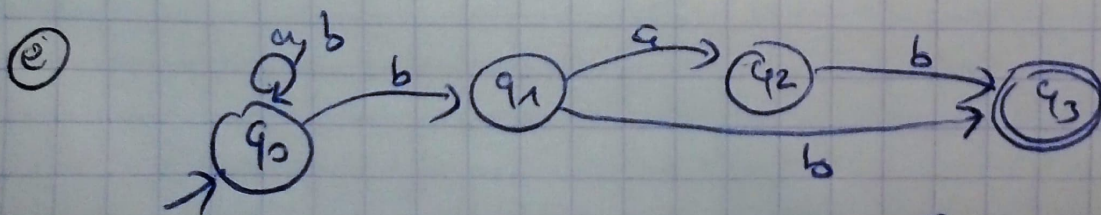
Exercise 3a



ER: $(a^* b a^*) | (a^* b a^* b a^* b (a|b)^*)$



ER: $a^* \cdot b \cdot a^* b a^*$



ER: $(a|b)^* \cdot b \cdot [(a.b) | b]$

Question 2e

$$\text{ER: } c^* \cdot [(b \cdot a)^* \mid (a \cdot b)^*]$$

Question 3e

$$\text{ER: } (b^* \cdot (a?) \cdot b^*)^*$$

Question 4e

$$(a + ba^*)^* + b(a + (b + aba)^*)^* \rightarrow \text{Oui}$$

$$(1 + b)(aa^* + bb^*a)^* \rightarrow \text{Non}$$

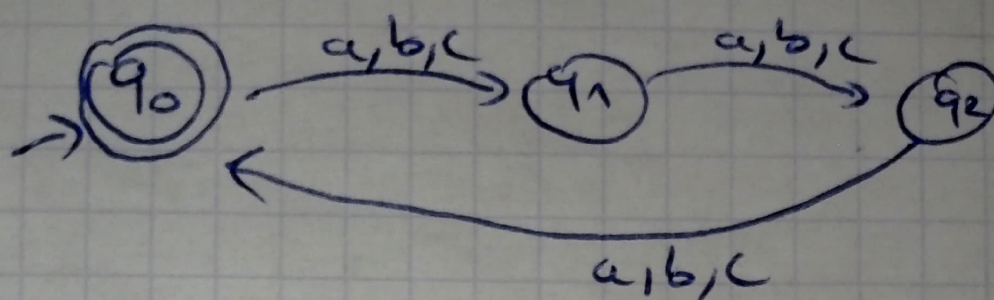
$$(1 + a)(1 + b)(1 + c)(1 + d)(e + f) \rightarrow \text{Non}$$

$$(a + (b + (c + d)^*)^*)^* \rightarrow \text{Oui}$$

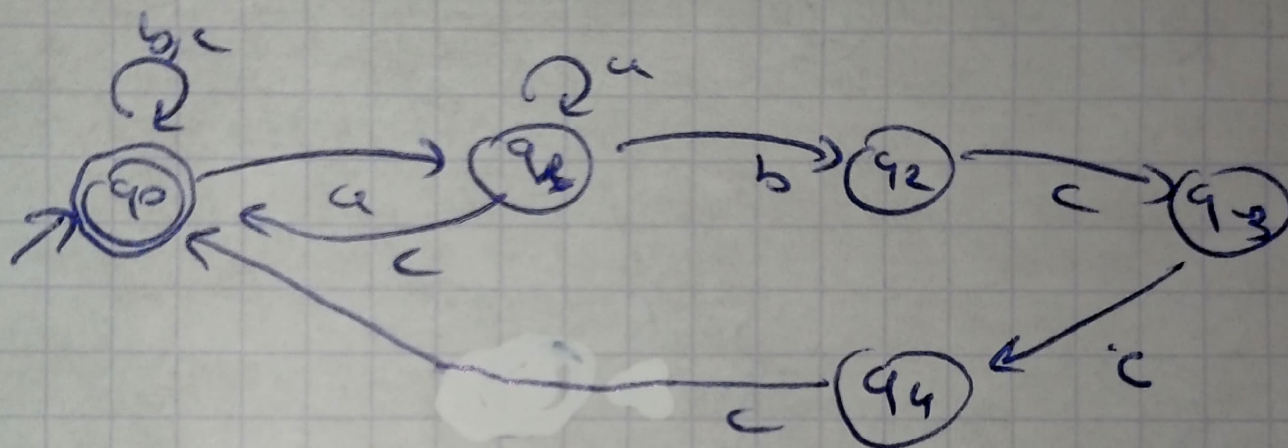
Exercice 1a

Exercise 48

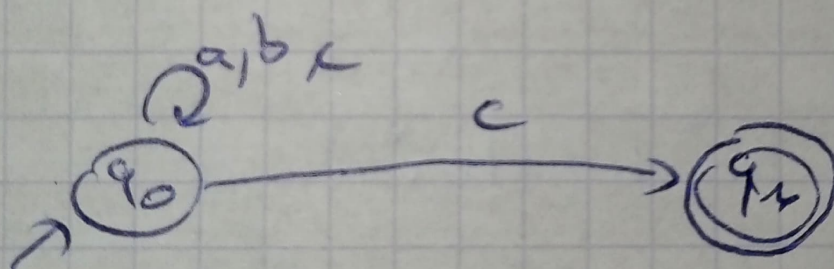
a)



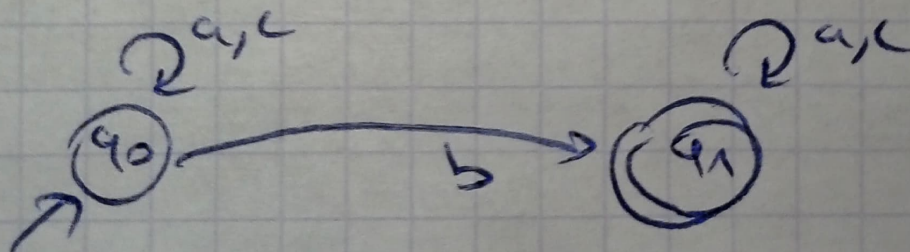
b)



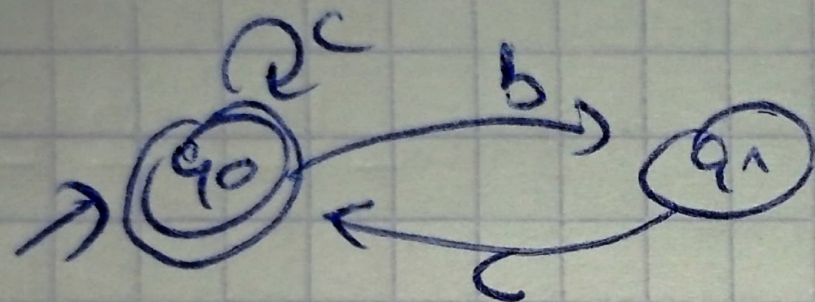
c)



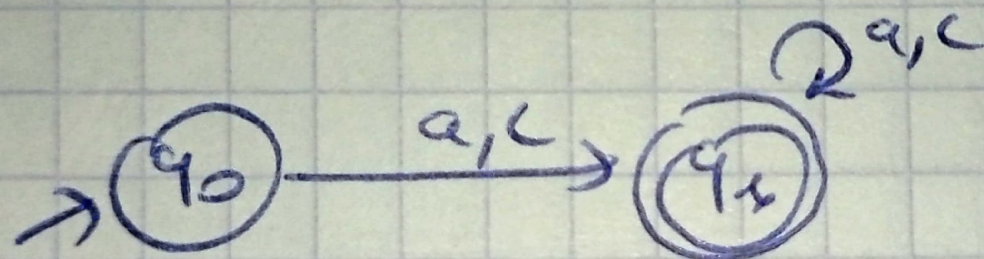
e)



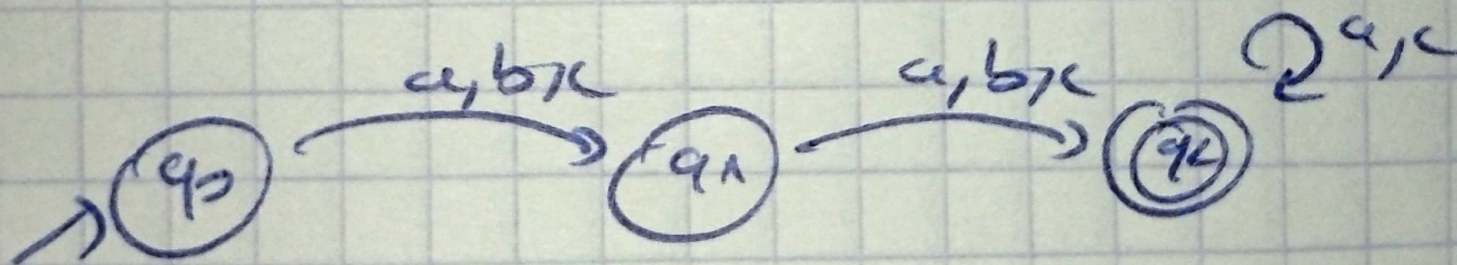
d)



f)

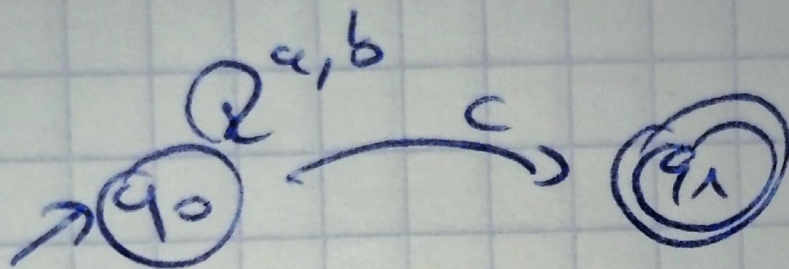


h)



• Exercise 58

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



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

