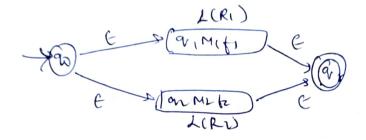
Obtain E-NFA from Regular Expression Let R be a regular expression. Then there exists a finite automaton M=(g,E, f, 20, F) which ampts L(R).

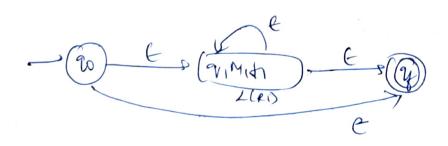
case): R=R,  $+R_2$ . We can construct an RVFA which accepts either  $L(R_1)$  or  $L(R_2)$  which can be represented as  $L(R_1+R_2)$ '-

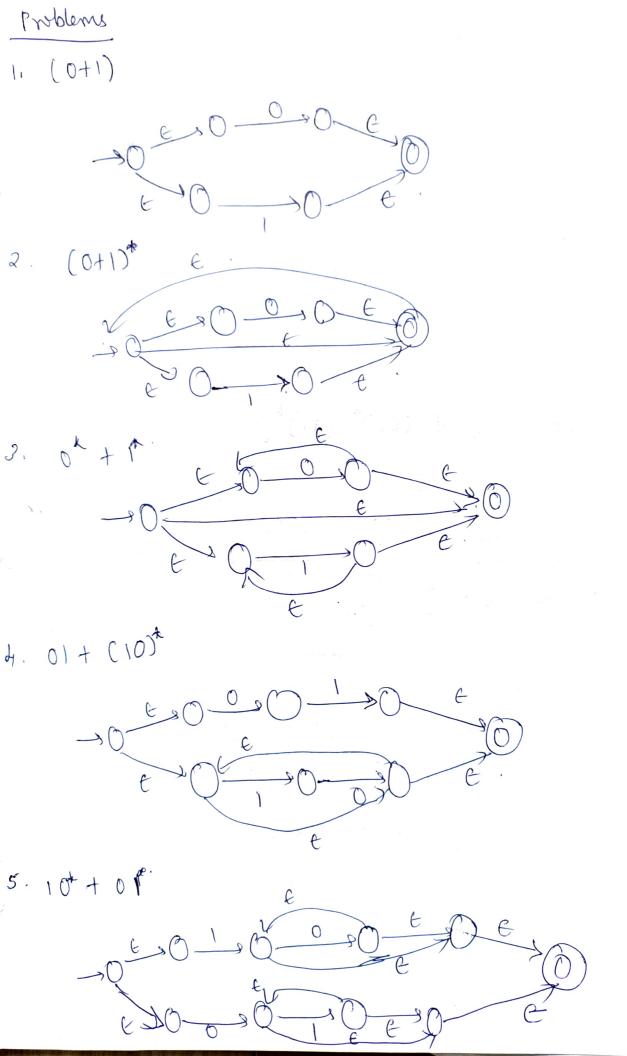


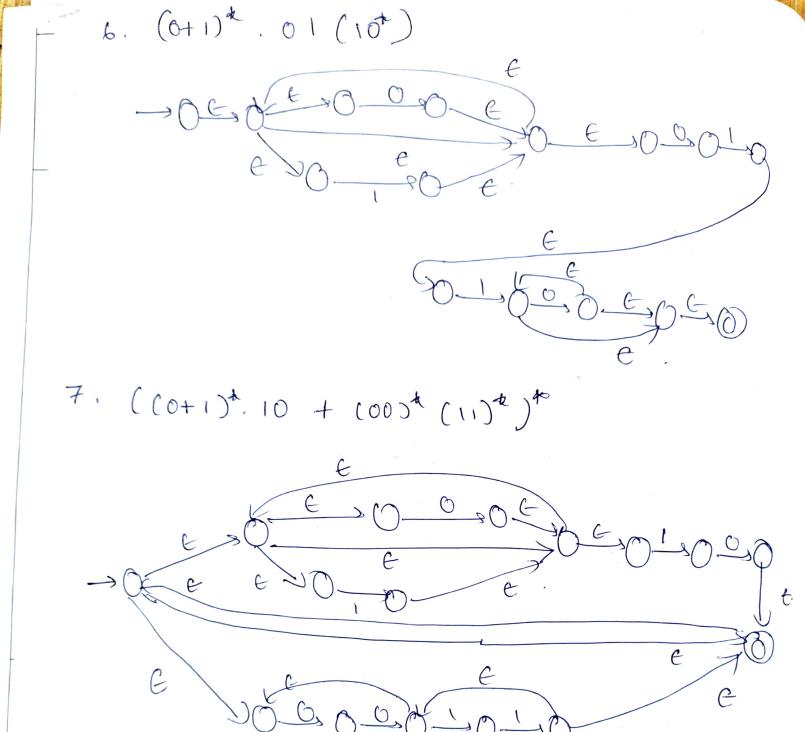
Case 2:  $R = R_1$ ,  $R_2$ . We can construct an NPA which anepts  $L(R_1)$  followed by  $L(R_2)$  which can be represented as  $L(R_1, R_2)$ 



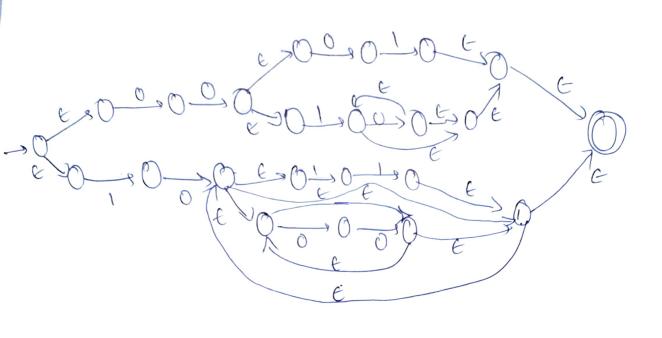
case 3:  $R = (R_1)^4$ , we can constant an NFA which anept either  $L(R_1)^4$  as shown:







8. 00(01+10<sup>t</sup>) + 10 (11+ (00)\*)\*.



10. ((01×+1)\*. (10+11)) 11. 10(11+10 ) + 11(11 + 01)\*.

12. (0 10·+ 11t) to

13, (01+10)\*

14.017 +14 15. ab (atb)k

16, Q++b++ck

A. Catby a a (atb)\*