## RE to NFA

If a language is described by a regular exprassion,

then it is tregular.

NFA/DFA

1. 
$$R = a$$
, for some  $a$  in the alphabets.  
 $L(R) = \int a^2 dx$ 

$$L(R) = \{a\}$$

$$\rightarrow \bigcirc \qquad \bigcirc \qquad \bigcirc$$

$$2.R = \epsilon$$
,  $L(R) = \{\epsilon\}$ 

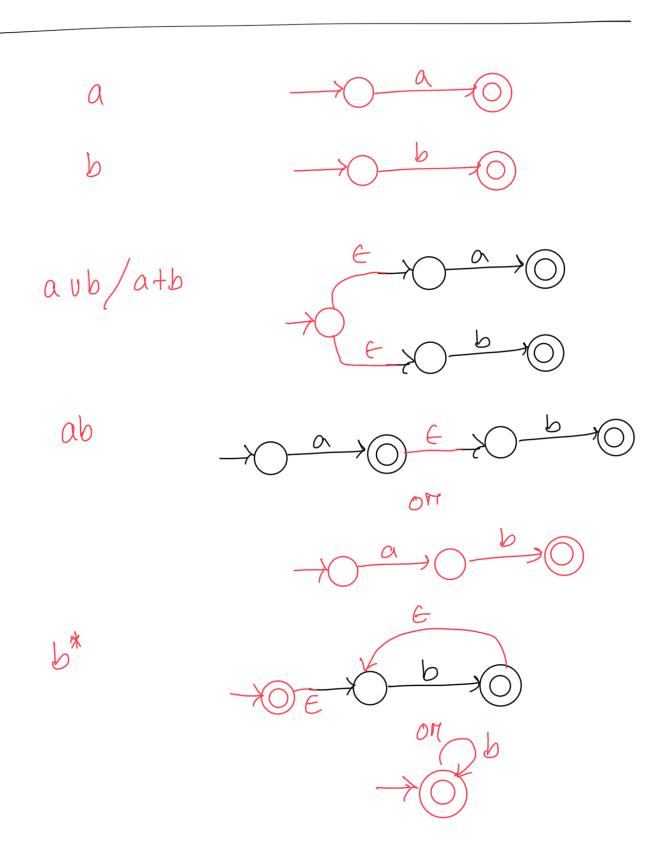
$$\rightarrow \bigcirc$$

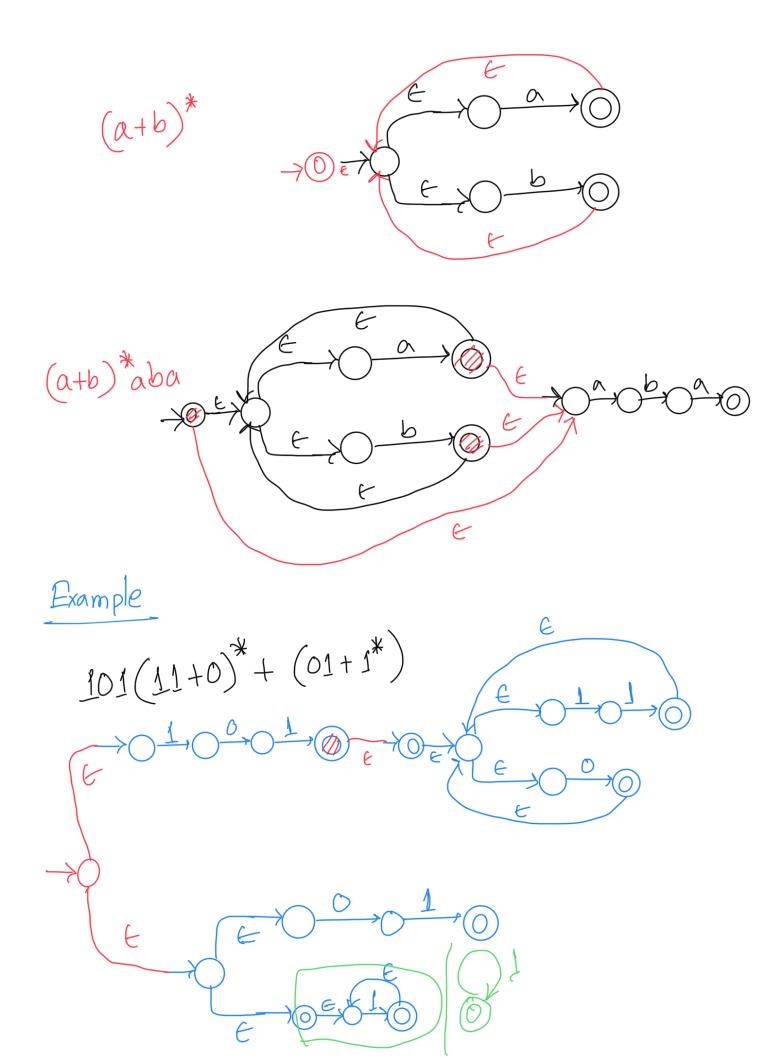
3. 
$$R = \phi$$
  $L(R) = \phi$ 

$$\longrightarrow$$

$$Q.R = R_1 U R_2$$

6. 
$$R = R_1^*$$





## Preactice

$$2. \quad (010+00^*)^*(1+011)^*$$

1. 
$$(010+00^{*})^{*}(1+011)^{*}$$
  
2.  $(010+00^{*})^{*}(1+011)^{*}$   
3.  $1+10^{*}1+(0+1)(00+11)^{*})^{*}$