9-1) REX -> NFA -> DFA (Oul)*00 u E decompile: N-DFA -> RE stant : N-dfa -> (n+2) - gnfa rip: (n+1)-gnfa = n-gnfaend: : 2-gnfa => re decompile m = end o riph o start (m)

9-2/
end: 2-gnta -7 re
A A A
,0 0
generalized non-deterministic Anile automata
GNFA = (Q, E, gs & Q, ge & Q,
$\Delta : (Q - ge) \times (Q - gs) \rightarrow RE(E))$
end (Egs, ge3, E, gs, ge, {((85,80), r)})
= 1

IN RIP = (n+1)-gnfa -> n-gnfa

$$\frac{9-5}{\text{ rip }}, \frac{(n_1)-g_1f_2}{(0,\xi,g_5,g_e,\Delta)} \xrightarrow{-n-g_1f_2} \frac{-n-g_1f_2}{(0,\xi,g_5,g_e,\Delta)}$$

$$Q = Q' \cup \xi g_1 3$$

$$\Delta = (Q-g_e) \times (Q-g_5) \Rightarrow re$$

$$g' = Q' \times (Q'-g_5) \Rightarrow re$$

$$g' = Q' \times Q' = g_5$$

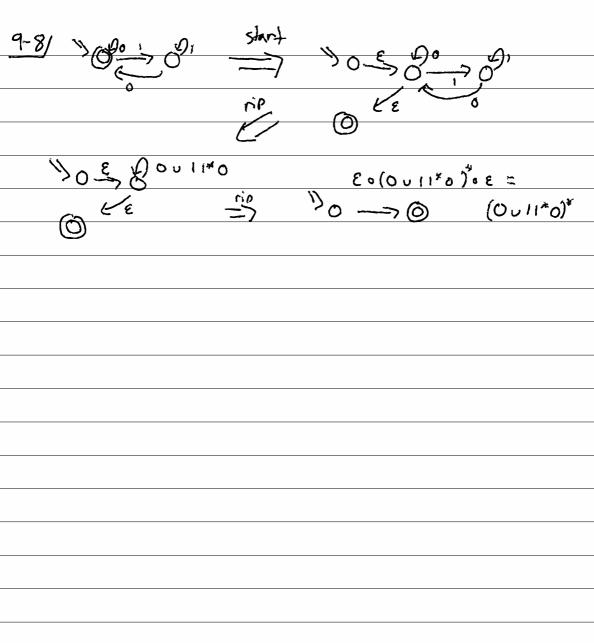
$$\Delta'(q_i, q_j) = \Delta(q_i, q_j)$$

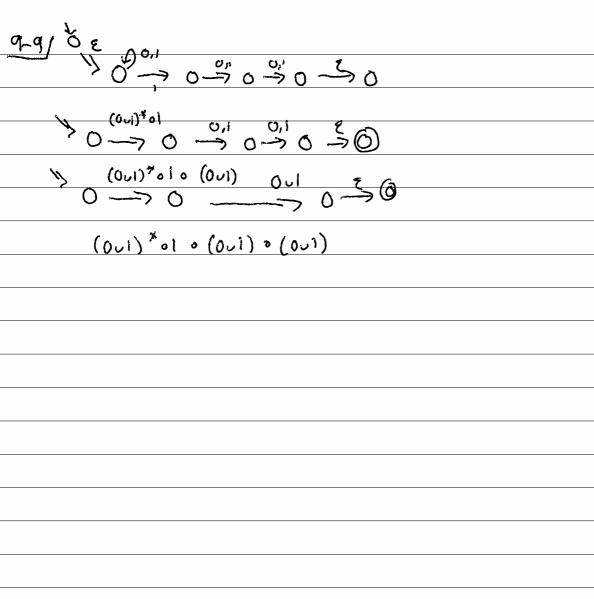
$$\Delta(q_i, q_i)$$

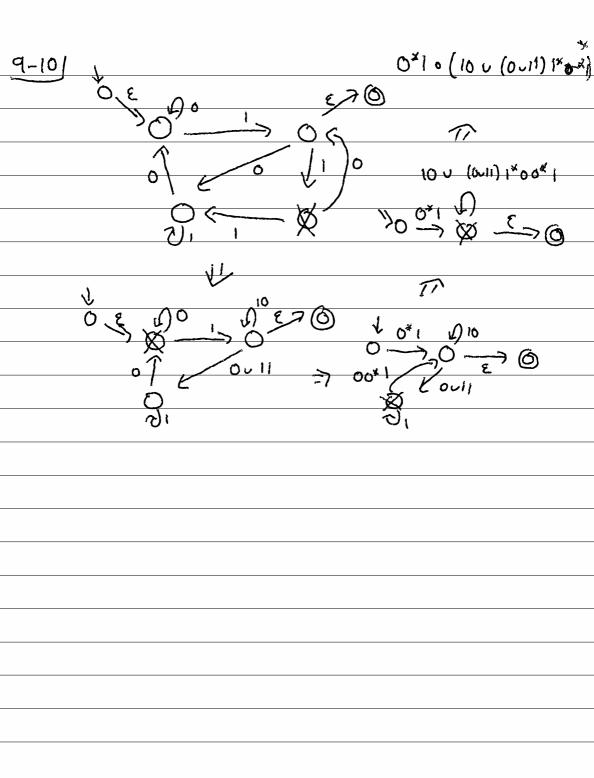
$$\Delta(q_i, q_i)^*$$

$$\Delta(q_i, q_j)^*$$

$$\Delta(q_i, q_j)^*$$







9-11/	
REX (=) DFAs	
	_
NFAs	
	_
2 idea : regular language	_
3 representations: dfas, nfas, rex	