

a,b

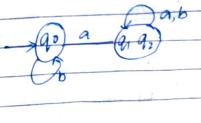
En:	75	a	Ь
→ 9,8		9,1	93
9,1		9,2	94
9,2	2	9,1	9.4
9,3	3.	9,2	*9,4
≫ q.	4	9A	94
,		*	7.1

9)	×			
9,2	X			
9,3	X			
QA.	X	X	X	% X
	90	91	9,2	9,3

t		·/			
	9,1	^			
	9,2	*			
	93	×	X	X	Si F
	9.4	×	X	×	
		ajo	Q1	9,2	9,5

0.1	a	b_	
8n'-	0.1	9,0	
→ ap	02	9,1	
* a1	9,0	0.2	
*921	71	4,-	

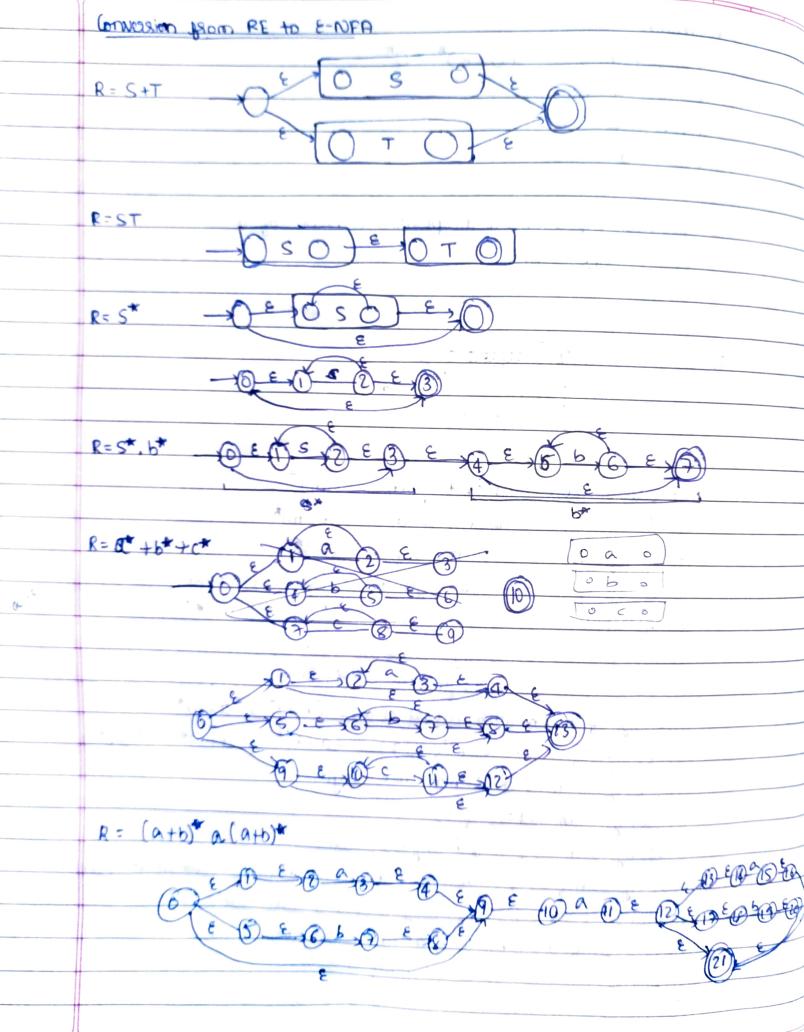
$$\begin{array}{c|cccc}
q_1 & X & & \\
\hline
q_2 & X & = & \\
\hline
q_0 & q_1 & & \\
\hline
(q_1, q_2) & q_0 & & \\
\end{array}$$



				i hat so me can grommy it	
	Ox:	0	1	G is inaccesible state so we can remove it	
	→A	€	D		
	В	H	D		
	С	F	E	To let	
	D	Е	F		
	*E	A	E		
	F	r.	B		
	(6	E	FY	7	
	Н	Fx	E		
		Contract of the Contract of th	The second secon		
	B 3 ×	7	•		
	e		1		
	D / N		,		
	C K F				
	F		w V V		
	MEXX	b C	X X X D F H		36
	1				
		<u> </u>			
	Regulas 8	apress	<u>ign</u>		122 - 124 C
			0		
<u></u>	more pro	gram	syntax (i)		
	(Rooule	3 000	nession	(Firite Automata)	
		1 cut	,	The state of the s	
			Rooul	as language	
	Lance staff of				
	Operator		62 (9E		13
	Ps	34.	6.5	- 1 1 0 h	
	Union			16 6	
	The state of the s	ion (oncatenation	so has	
	Kleene U	Blule	(* operator)	= 1x is infinite set iff 121≥1 and L ≠ 9 € 6	
				V 60	

_	DATE: PAGE:
	formulas
	$a + \phi = a$ $(O + \epsilon)^* = O^*$
	a + E = a + E
	$\alpha \cdot \emptyset = \emptyset$
	a.8 = a
-	
	sa: Rogulas emprossion to accept a one occurrence of a
	(10) A (10)
	\$ 6) One is more occurrence of a
	20 a v a a
	W a M
	c) Zero es more occurrence of ab = (ab)*
	d) One of more ocurrence of ab = ab (ab)*
	e) strings of a's & b's of any length = (a+b)*
-	1) Stagge of o'c & h'c Al longth force = (0+h) (0+h) (0+h) (0+h)
	g) Afternate occurrence of as 4 b's = (ab)* + (ba)* + a(ba)* + b(ab)* (3)
	h) strings of a's & b's of longer four 4 lose = (a+b+E). (a+b+E). (a+b+E). (a+b+E)
	i) Strings of a's & b's of longth & to 4 = lath), (a+6), (a+6+E). (a+6+E)
	j) strings of a's 4 bs with atteast 1 a's = (a+b) a (a+b)*
	r) strings of a's & b's exactly 2' a's = fatby a (a+b) b* ab* ab*
-	1) storings with 0's & 1's with even length-
-	m) Storings with odd now of 1/s =
-	n) stoings with 0's & 1's with length 6 or less=
-	a) Itsings with of 0's of 1's ending with 1 of containing consecutive zonnes
-	p) stoings of a's & b's beginning & ending with same character
	a) stoings of a's & b's with atteast one a and one b.
1	1) Stoing with next to last symbol is 0
	4.

S) Stringe of 0's & 1's not containing consecutive zero





Conversion DFA to RE

$$R = E + 0E + 1) \times 0E \times 0$$
 $R = E + 0E + 1) \times 0E \times 0$
 $(E + 01) \times 0$
 $(01) \times 0$

