# Regular Enquession

Parouty of operators of RE:

() e\* e+

0

0

refinition:

12

1) RE is said to be said if it can be durine from RE by a finite no. of a squiention of the suce ex, ex, ex, ey, ex, W1+ M2 .

a) if & is a given appeared then, \$ 50/1. ace are Res.

+

• © 
$$a + \phi = 0$$
.

©  $a + \phi = 0$ .

©  $a + \phi = 0$ .

©  $a + \phi = \{a, e\}$ 

©  $a + \phi = \{a, e\}$ 

©  $a + \phi = \{a, e\}$ 

©  $a + \phi = \{a, b\}$ 

©  $a + \phi = \{a,$ 

John Strang

(0)

(A) d(4) => (a+b) 0 (a+b) = {a,b}

(a+b)3 = { and b (a+b)2= {aa,ab, ba, bb}

0

M = (a+b)\*, (a+b) E &, ab, auth, ...

Luca

l = a\*. a\* (E,a,aa.} &(a,aa,aaa) δε,... · (a+b) = (a+b)+ 27

926

M= (ab)\* = { E, ab, abab, ababab. (ab) 6 (ab) (ab) (ab) (06)

rons

126花-

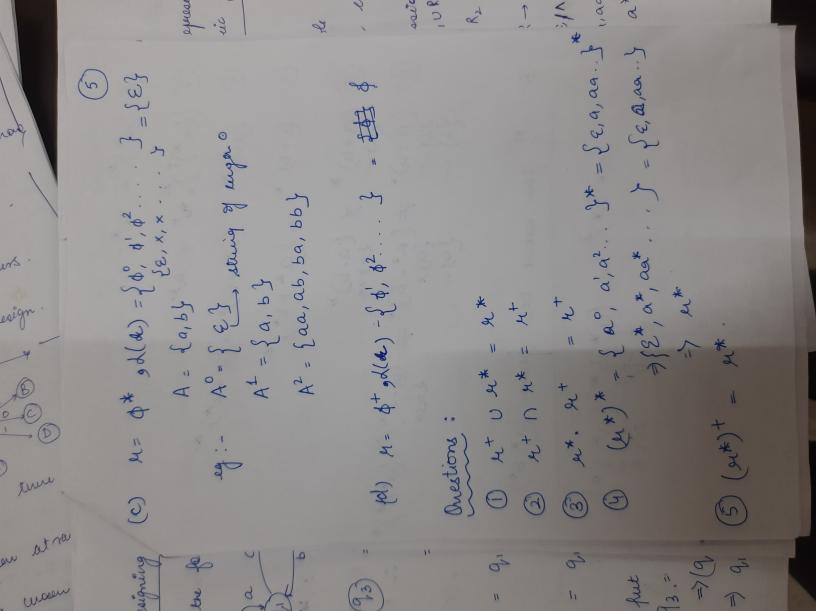
926 t

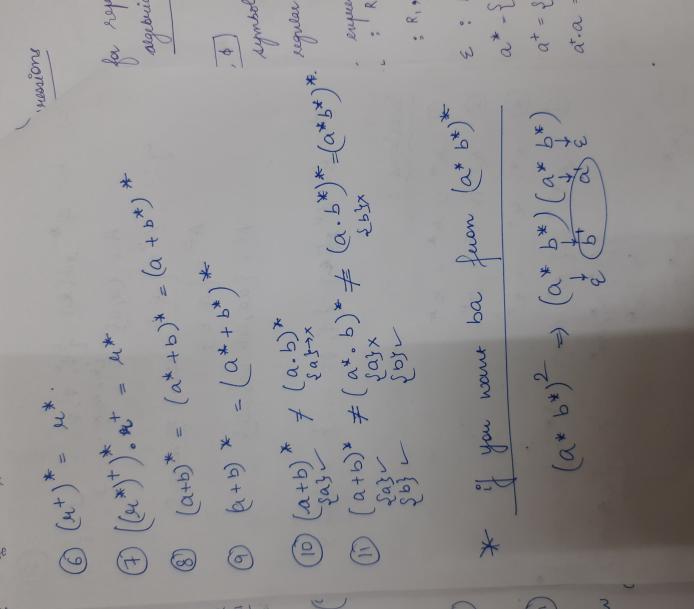
(ab)3= (aboutab

4

mason. Labor Z R, 9 11 2 some language can be generated by one or more Reguear Empressions. (b) R= E+, d(4) = {E', Q2...} = {E} (a) q = E\*, d(H) = {E', E', E'. \$ = empty set / med set . = 0 \$ = empty strip. - 86,8,8 to remove = f.E.f. 43: a\*+ (aa)\*  $d(h_1) \supseteq d(h_2)$ (d) {d(n,) } d(n) (A) A(M1) C A(M2) (c) d(h1) = d(h2) R1= Q\* (9)

of Dec





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		in of	7	0) 3	\$ 3 1	A *~	0 8	
ne	y Regult How to design Re fuon danguage (7)	(1) Staut mith ab:	gab, aba, abb, abba}	=> rab(a+b)*	(8) stant with bba:	(3) eurels mith abb :  (a+b)*abb	(4) contain substrip abs.	S 84
ne	S.	Colleni	3	٩	lı 11	6	g t	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

yoursent ic fan x ray , serion RIUR2 1 2 m ME ,00 \*4 (1) starts and union different segment. y a+ a (a+b) \* a + b+ b (a+b) \* b. 6 start and ends vietn same supersof = ata+b)\* b + b(a+b)\* a. → Lega, b, aarlob, ba, ab, .... 7 6+ 6+6)+ (a+6)2+ (a+6)3 (a+b)3 (a+b)\* 1w1 ×3 × des (a+b) (a+b) (a+b) (a+9+E) [W] = 3 [W] < 3 2 3

