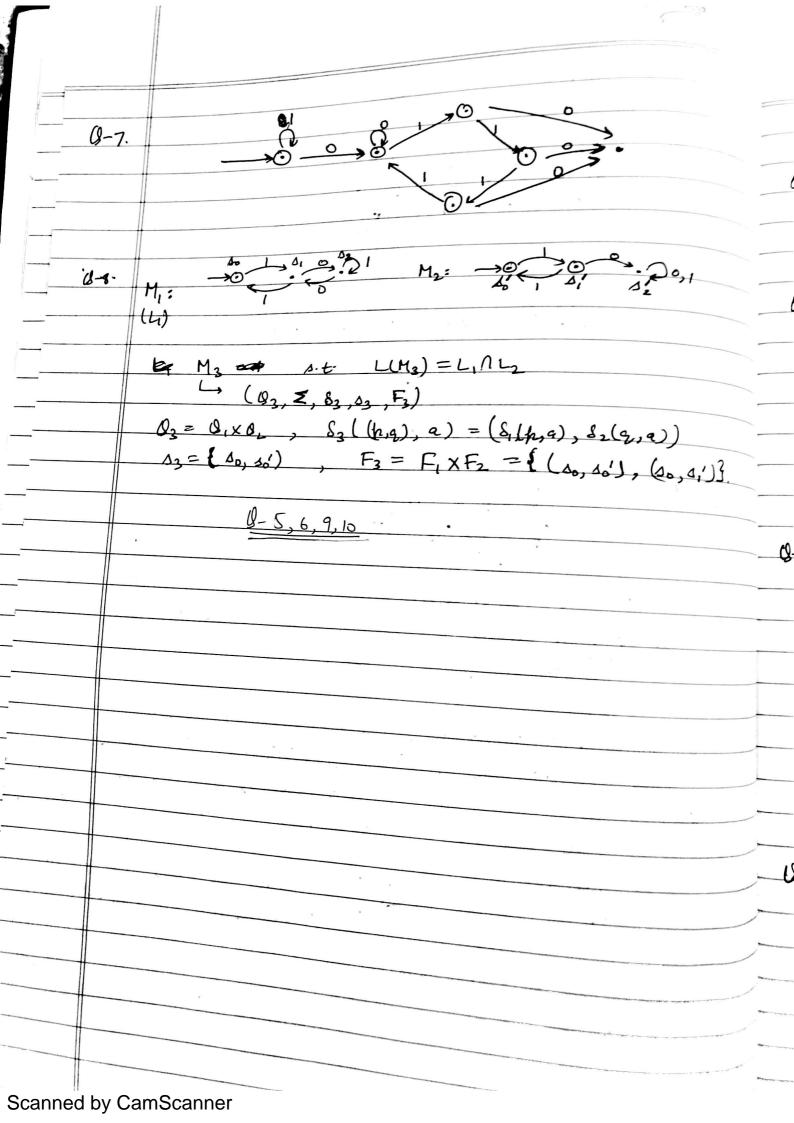
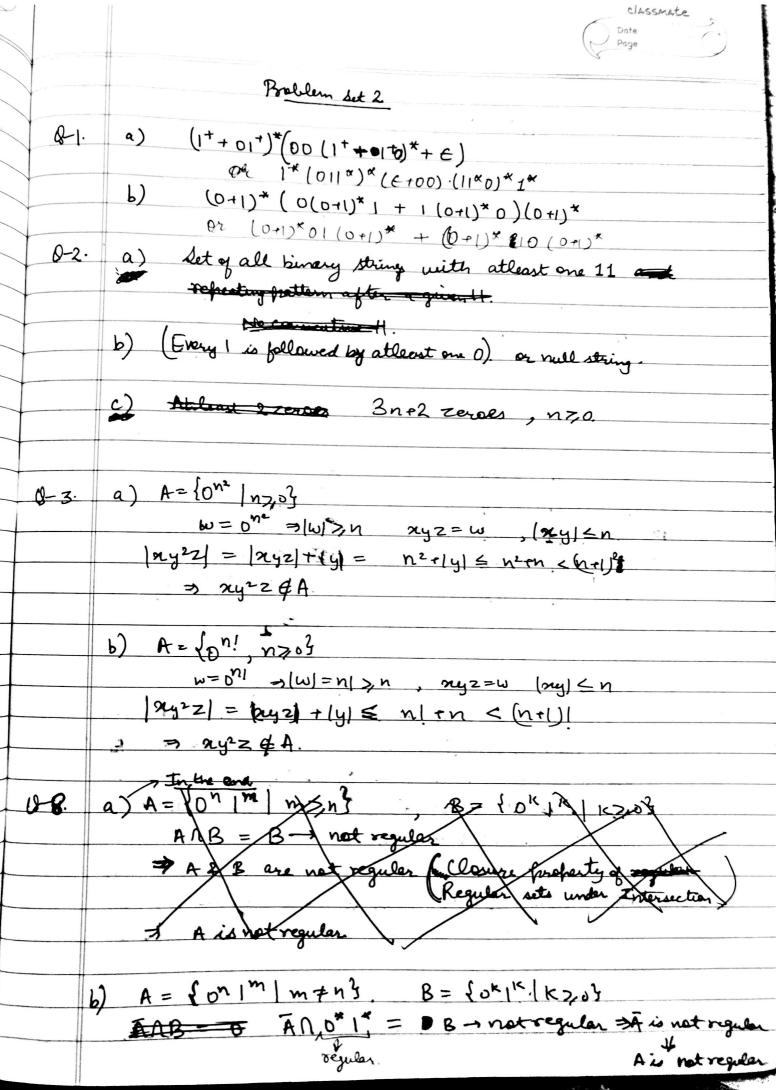
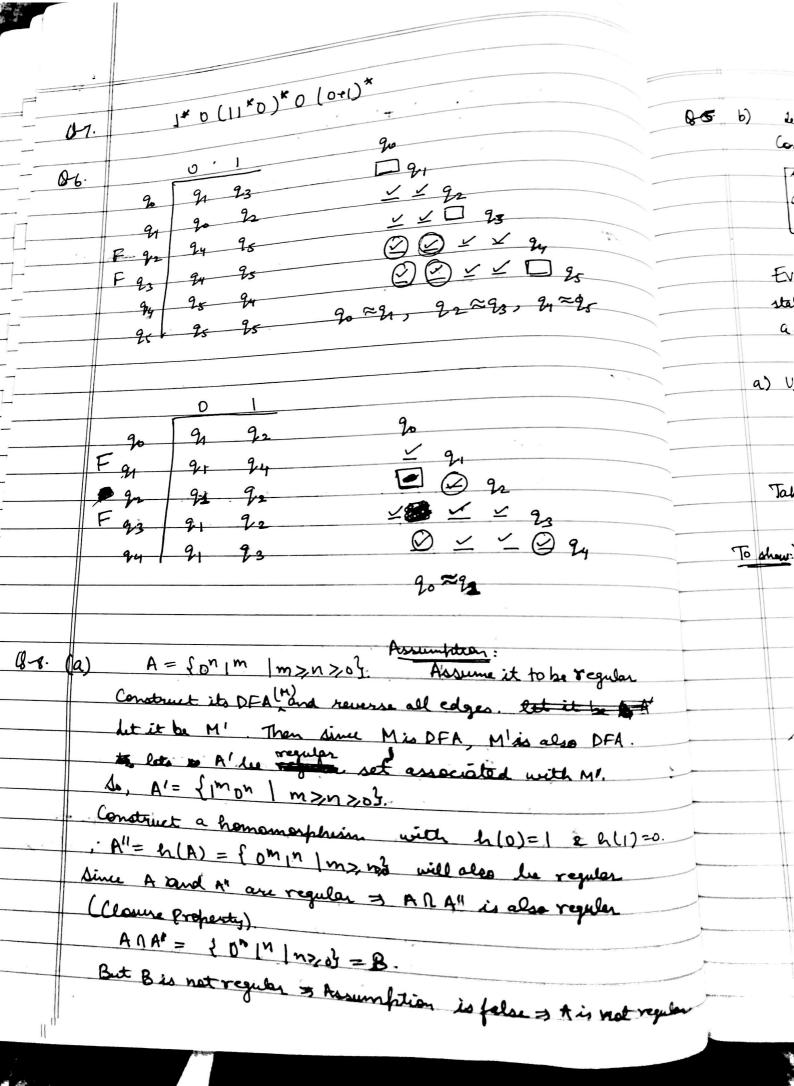


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	Classmate  Date Page
Q-65	Construct DFA M' s.t. for every edge of as in & M,  insert a node in between and make it and ag
	and change final node it
	Every edge $a_i$ in M is replaced by $a_i$ s (by inserting a state in between). It can be easily argued that is M' is also a DFA. $\Rightarrow b_i$ is regular.
	a) Using Pumping's Lemma:
	L_1 = {w  w = a, a a s a a s s , - a n s mener a, a
	Take w= a18 a2 82 a283 ansn  w1>n. (In)
76	show: 7 n; y, 2 with nyz=w. 3 b s.t. nykz & L,
	Let $y = a_i$ then $a_i y^2 z \notin L_i$ $y = a_i$ then $a_i y^2 z \notin L_i$
	y=ais
	So, of ty nykz &ly, for some k
	<u>Q-4</u>

