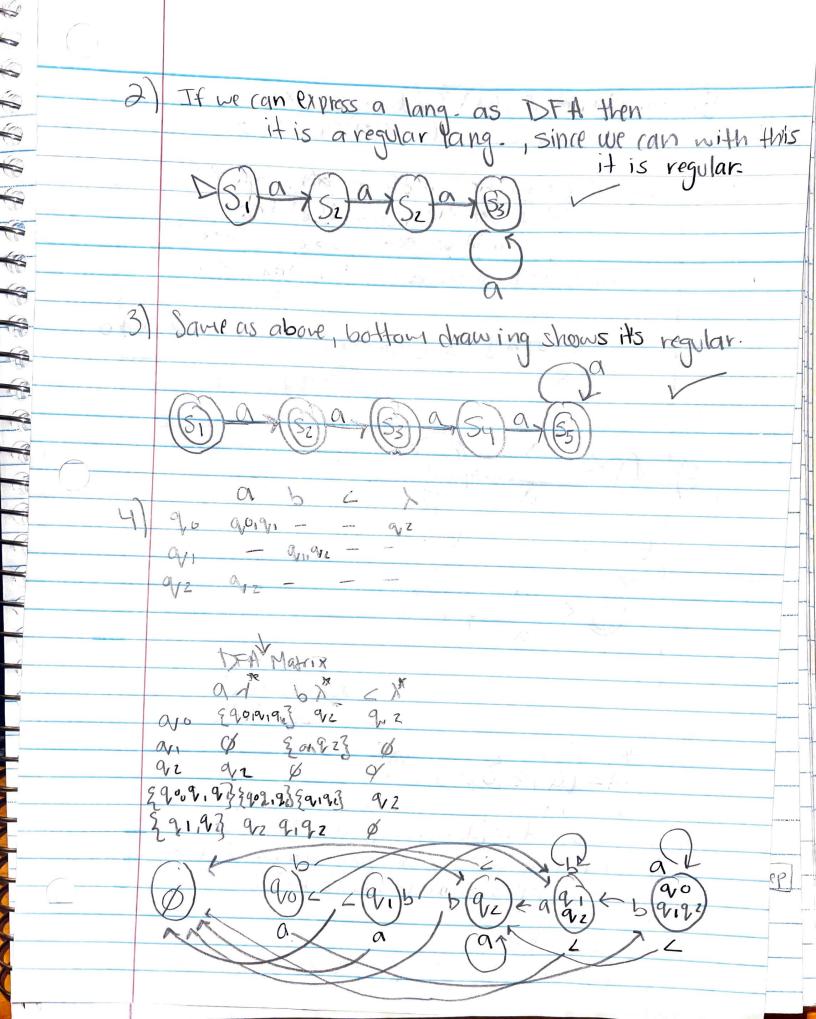
e) Must fail: all states with 3 of the same of with lot each species ex: (111) might fail = None Cannot Fail- all states with 2 of one species I of another species ex: 201, 210,021,120,102



Compliment of LIM) for first equation = for sprendequetion > Since we compliment a dfa on nfar all the Final states become non final states, new nould be Q-F, so compliment of ((M) should be equal to second equation L=[a] 8*[qo,a) N(Q-F) = (22] +0 -760 -7 G2 M = (Q, 2, 8, 90, F') Lis not regular pump lemma then there exists pumping length p for any string s in truncate L of length p S=X1Z 14170 XXY = Francise for KZO

Let & be any string of L with atleast P+1 teruncate = s'x s'x = P + 1 | s' | rBy Pumping 5'X=xyz 11/70 1xy15P Since S'x is in L and L doesn't contain > we have Y=xz' where z' is a non-entry string. So L is a regular lang without entity string, which wears truncated is regular.