Let Ax = 6 be a system of linear egn where A is an mxn matrix & 6 is a mx1 col vector and x is an nx1 col vector whenours. WOF is false? 1) The system has a sol" if and only if,
both of and the augmented matrix [Ab]
have the same sank. (7)

B) 21 m (n & 6 is a zero vector, then
the system has a jero mector,
but a non-zero muctor,
then the system has a unique solm

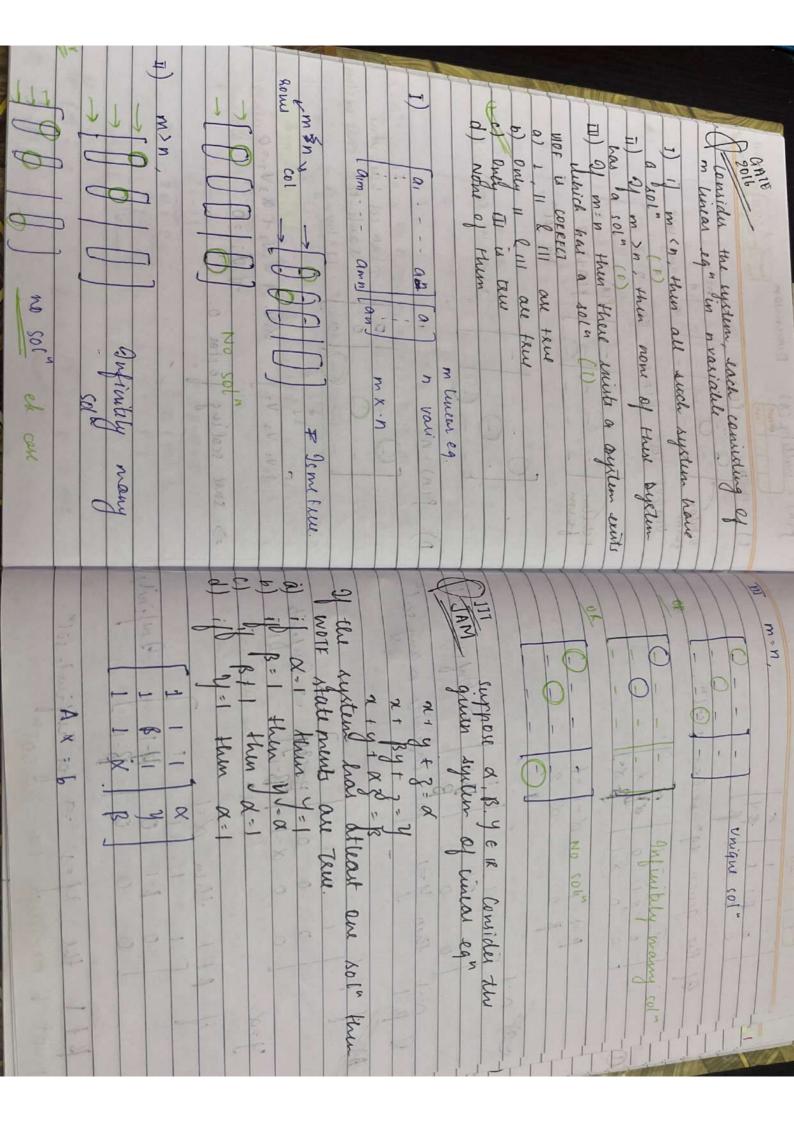
1) The system has a unique solm

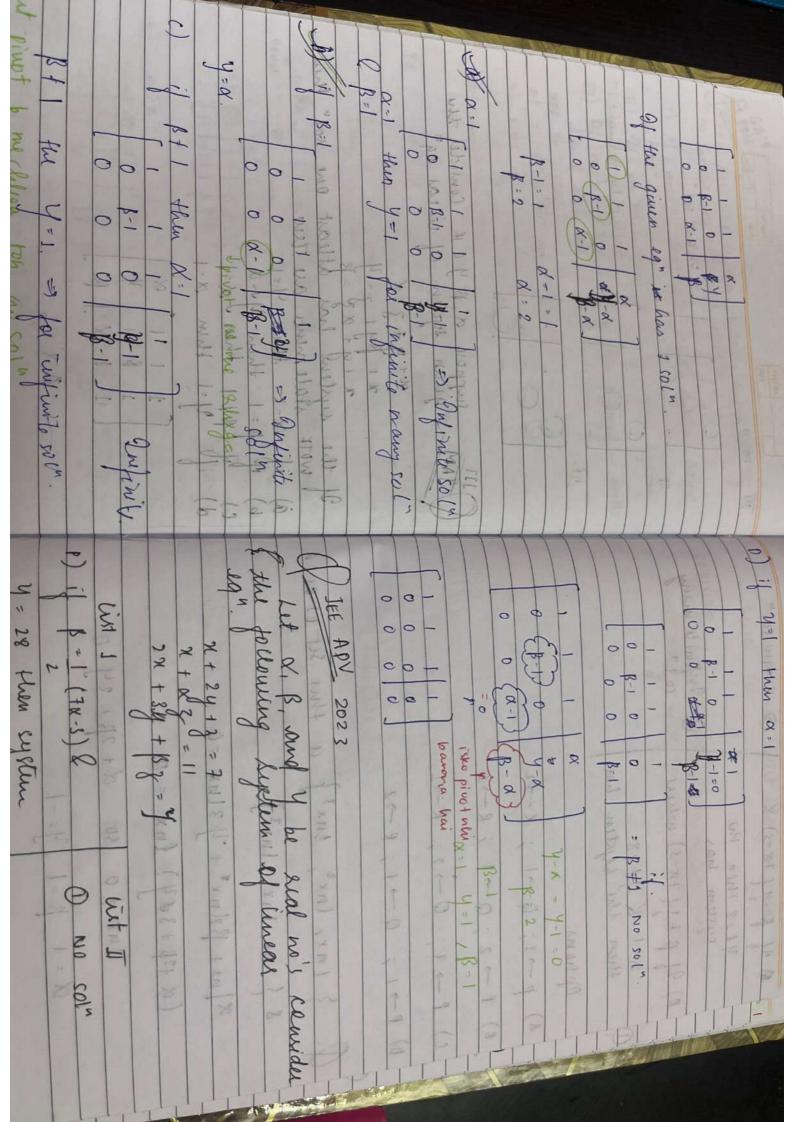
2) The system will have only a trivial solm

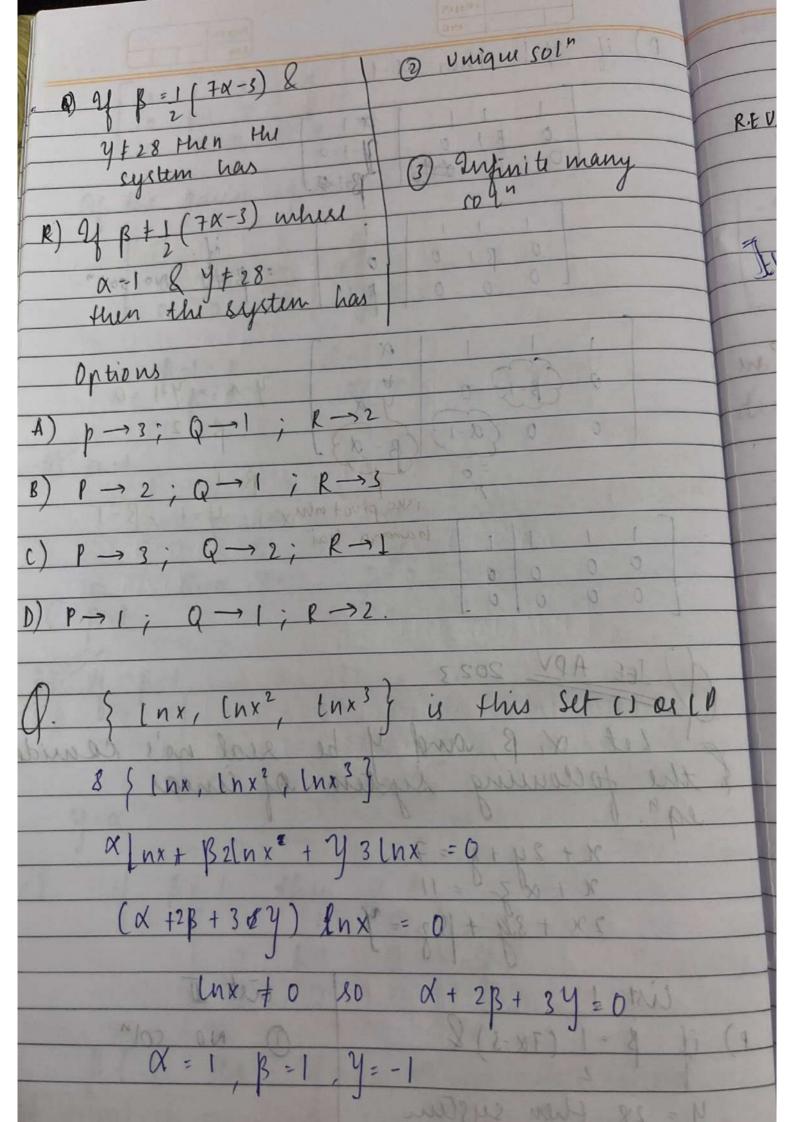
when m=n, b is the zero vector flowed:

8 cut (A) = n (1) $f(A:b) = f(A) = n \rightarrow unique$ $f(A:b) = f(A) = s \rightarrow \infty \cdot many$

17 001 = 103 1 2 037 10 03 ho W > W 1 -- 1 24+2= 10 0 0 7- 11 3y + 42 60 11+ -2 10 010 2 0 0 / Ol 0 Terist 1 P2 - R2 - 2 P1 9 8 vasiable 35% variable 2 2=(4) +34-400 7:30 1 = 2 0 00 0 VI F V2 - V3 2 (A) X wo & che solm exist 100 0 0 2 kanya. 1 tentton n armon AAD ING V Dam SA-COUNTY W.W soul (A) = N VI VI VI 1 2010 scalus 1 一里 T(A:b) T (A) 52 F actor I 1 1 2,4 C 0 0 (A) = n = 3 0 8 (A)=2 8 (A. A.) m=3 N 7 3 many sola + x: :0 momo Q , U2 + THU COL Zo gampe to h sage wellow 201 M タンくる 00 WHY







NO ISTA 48 means these exist non-Jose scalar all di=0