سوال Y) الف) عل مساله كمترس مربعات با DV ؟: Linear fullrank: Ax=b AEC", bEC", XEC" b ∉ N(A\*) A\*A x = A\*b => x=(A\*A) - A\*b m JEA , M = (A\*A) -1 A\* A=UEV\* = [UR U] SVD ; I an Line III => A\*A = V\_ S V\_ \* milionstens  $\rightarrow (A^*A)^{-1} = \sqrt{S^*V_0^*}$ -> (A\*A)-1 A\*=V\_S-1/2\*(V\_SU\*)= = V, S- U, = A