1 Solution to NEg: 6 = (XTX) FY where (X'X) is a generalized invese 0(4XX) Generalized Inverse For matrix A, the matrix G is a generalized invers, if AGA = A  $(AGA)^{T} = A^{T}$ A. G. A = A. A . A System of equations: Ax = y > right hand side (Normal equations: (XTX) b = XTy with G being a generalisad inverse of (XXX)