Lecture-21 -> Eigen Values - Eigen Vectors - del [A-XI] = 0 -> Torace= >1+ /2+···+>~ (Ax) panallel to x Vector > Eige-vector) Jeiga Vactors HX= XX 3 Sigar Values , Eigen Value, If A is Singular, X = 0/10 eiga Volue. # What are the (x's) and (x's) for . Projettion => Fmy x's in the place will be a eign Voctor, シバー => X 1 to the place will be a cigen Vector => >= O

>NXN will have Neiger volue! > Sund xis = an +an + ... am - definition Torace => Sum of the element on the main diagonal ton(A) = = a = a + an + - - ann # How to Solve Ax= >x $\Rightarrow (A - \lambda I) x = 0$ >9t has to be singular for Some mon Zeno X. => [[A->I] = 0] - Eigen Value Sandier Let Q be medior which nototo ever voite ho go Q=[9] dot(a-NF) 7+1=0 #In Case of enper A mothis eliga volve and