Osthogonal transformations and other pour matrices. -> linear transformations that preserve length. orthogonal transformation! IR - 1Rt. -> Remarks week mentix amounted to an official transformation: official untix Q: anything 1) Retutions. 2) Reflections. A untix is offwormal if and only if its columns form on oflowand basis of 1R" @ Thes are a special type of change of basis! TYTZ 1/16 J offmond? 之義[1-1] ortho goval? Then: (1) Product of office and mother is rolly out. (ii) Inverte of orthogonal moderies is orthogonal why? They preserve distancer! See them as lives franto two tous. troms rose: exchange ij and ij

356 to the diagonal orther (over) orthogonal projection is = mto line ず=じ门 ボ= たじ门 了= 点[门意[门]