Homogeneous coordinates WHILE STEEL n'= Translates foint n
by t $T = \begin{bmatrix} 1 & |t| \\ 0 & 1 \end{bmatrix} \rightarrow Inanslation$ matrix L) O is an nxi vector where nxn is the state of I and nxi is the shape of t I is just a single number M = [mI] O] Scale Change matrin R = [R] o Actation matrin m -> Saling factor S= [mr t] Similarity
transform
matrin A= [A t] Affine transform Rigid transform with rescaling Involves any of neflection notation, Shape remains same L Size clanges scaling, and translation P= [A t] - Projective transform € R,T -> Preserve all of distances, angles, lives, parallelism Kine to line mapping and collinearity Means the line to parallelism and collinearity A -> Preserves lines, farallelism and collinearity line mapping & P-> brescrives lines and collinearity