Permurarion P: execute now techanges becomes PA=LU -) Any inverable case P= identity marix with reordered rows. -n!=n(n-1)(n-2)-~2x Laures rearders gall non permutations Transposed -2 So Transpose A 217=(A)11

Symmetric Macrix is always symmetric

We can take the transpose proved H Versor Space all 2-dimensional real veerors and component 1 er component cors with Component

2 = vectors with n column.

(n components)

Can we do those addition

and still in the spaces?

Ans: (163) Oall-in 22 Oall-in 22 Oall-in 22 Oany Ine chrough [o] 3) zero vector only "?

