LA is defined by AC 0(3) thus we know A= (a bc) a vi) s.t. we have Now we want to take $A^T = A^{-1}$ $\sigma(u_{|V}) = (u_{|V|} uv)$ and A o (w/v) - (a b a) (w)
ghi) (w) Now $A^{T} = \begin{pmatrix} a & d & g \\ b & e & h \end{pmatrix}$ 50 AT AT (abc) (adg) ghi) (cfi) For this to work all me should do is apply an orthogonal was CAEO(3)

For this to work all we show the O(3) apply an orthogonal when $C_A \in O(3)$ apply an orthogonal (u,v,uv) (1 thunk) to O(u,v) = (u,v,uv) ((u,v) = (x,y,z)) then if $A \circ (u,v) = (x,y,z)$ when (u,v) = (x,y,z) then (u,v) = (x,v) then (u,v) = (