-> Suppose V is a reator space and S,T & L(V, V) such that grange S C null T Prove that (ST) = 0 Let VEY Broof: (ST)(ST)(V) = (STS)(TV)= (STS) (V,) [4 E V] = (FT)(SV,) = $(ST)(v_2)$ $[v_2 \in V]$ and $v_2 \in ranges$: · Vz e null? $= (s)(Tv_2) \quad (\because v_2 \in null \ T)$ = (\le) (\dol) QED.