(5)-> Dim.(V)= Dim.(W).

T:V->W

So, suppose, we have a L-1, set-> (u,, u2,,--ury. c, u, + c, u2+... + c, u, = 0, if & only if C,= C2= -- = Cx= D unique, since it belongs to a V.S. & L.T. 20; from - (1019 ) x- = (1019 ) T T(c,u,+c,u2+...+c,u2)=e,.T(u,)+c,.T(u2) [100 - 100 at: 210 at - 7. (00) So, -> L. H.s. will mop to diff images each time, if 4 only if, in R.H.I., T(U,), T(Uz) 2..., T(Ur) are giving differ. value each time as linear comb.2. for this T(u,), T(u2)...T(ur) chould give the same value (ie. 0 value).

9

d

6

9

6

9

0

1

7

7

7

7

7

7

7

7

-5 -2

-5

-