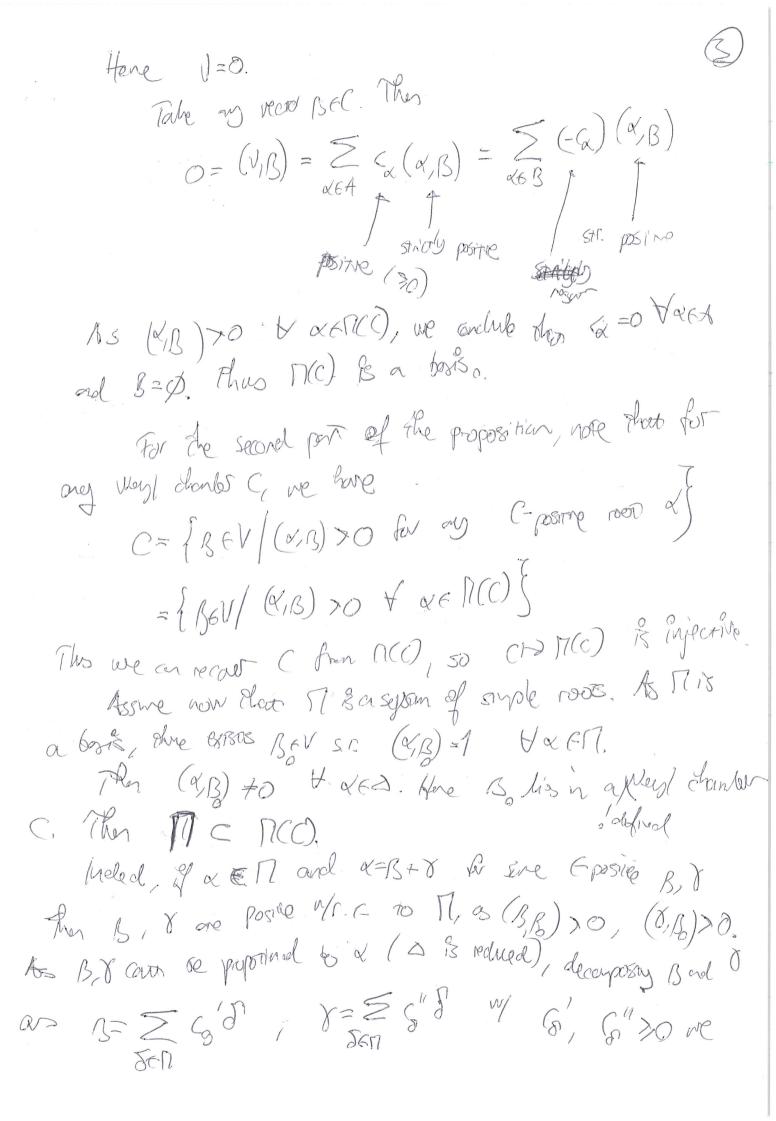
Recoll 1007 system X < V/103 $O S_{\alpha}(\Delta) = \Delta S_{\alpha}(B) = B - \frac{2(\alpha, \beta)}{(\alpha, \alpha)} \alpha$ $2(x/3) \in \mathbb{Z}$ Assine that Span A = V and A is reduced. a) 17 13 a 608is of B) B = E GX the either 620 Y & OF CLEO Y &. Mey Counter is a connected apparent of VIVX Weyl chantes Fix a Wey Land. Define T(c) = { x | x is & positive, so (dis) 70. If see () Pap MCO is a seyson of simple roots. Finihermore, (+)MCC) is a bijection between the West Hanles and systems of Suple Foots.

If By of M(C), any C-position room B hos the form $\leq \epsilon \propto$ for $\epsilon \in \mathbb{Z}_+$. Thus gle spanfacc)=V. Thefre, we have to show there MCC) is a book. More Rose dear of a,BEMCO, the X-B&D. Indeed others, eight X-D or B-X B (-positive, But Then x = B + (x - B), B = d + (B - a) shows there may start on a contradiction in the def of A(C).

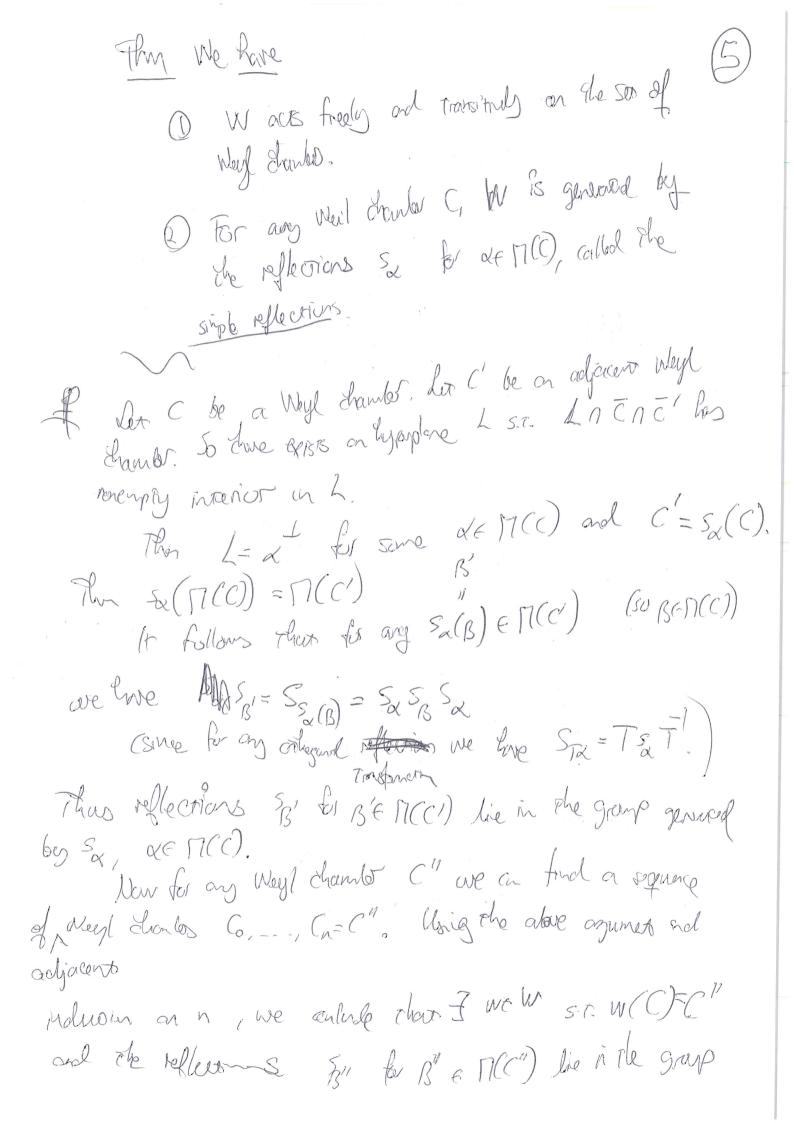
Store next then if $A, B \in A(C)$, $A \neq B$, then $(A, B) \leq O$ holed, assure (X,B) > 0. We may assure that Mall>1/BIL. Then $\frac{2(x, y)}{(x, x)} < \frac{2 ||x|| ||x||}{||x||^2} = \frac{2 ||x||}{||x||} \leq 2,$ Reve $2(\alpha_{,B}) = 1$. But then $S_{\alpha}(B) = B - \alpha \in \Delta$, controlling the presion observation. Zad =0 Were & R Assure now that afre) Consider A= fx encol & >03. B= ncc) \ A. V= \(\int \(\alpha \) = \(\int \) \(\alpha \) = \(\alpha \) = \(\int \) \(\alpha \) = \(\a (1,1) = Z Colors (d/s) <0 156B posice) rguire



Here $\alpha = \frac{2}{860}(c_6 + c_6')\delta$ which conscious The graphing that Mis a bons.

But #17 = #1700), so they are equal. Gran a Weyl Lawler C, we say those a hypphone LCV is a wall of C if Ln Theo nonemy marior in L. TXC O V & ED, & I is a wall of some Weyl @ For any Novel don't C, the wells of C one the hyppolars of, X6MCO. Ond @ imply that any are I his in D(C) for some Of the Word group Vot (V,0) is the subgrop of OW)
general by Reflections &, x60.

B W(A)=A H WEW and Sports=V, the West group W 6 finise to Wings the syran of Euperpland at, at a mos. Etself, W mps (May) shamber into West Hanles



general by Sx for XFMCO. As oney room mas his in some M(c) It some (1) ere see that Wis served by Sa, and.

So the action of Wan the Word downs is passible. We will not prove (nor need) then the action is free in gonlo The For root system ansig from corporet groups, this will follow from the proof of the next result. Home now that G is a corporat corrected his group all TCG a maximal toms. Greider the corresponding root system 2 on V= it ch. Las V = Spen X = VNote that for any $v \in A$, the reflection S_{x} and S_{y} are also as S_{y} and S_{y} are also as S_{y} and S_{y} are also as S_{y} and S_{y} are also as S_{y} and S_{y} and S_{y} and S_{y} and S_{y} are also as S_{y} and S_{y} and S_{y} and S_{y} and S_{y} are also as S_{y} and S_{y} and S_{y} and S_{y} are also as S_{y} and Swe have a homomorphism $N(O) \leftarrow O(V)$ clapsel (y $r(g) + (g) = do(Adg^{-1})$

The homomphism of define on isomorphism (2)

NOTE W.

So our two del's of the West group are equilibrar. A Recall that for any 96 MM, we have that (Adg)(Ja) = Jao Adgi Phis implies that Imr leave is (three 16) invariants. Recall that for every root de A, we conserved on when we (The ing of (-10) & 5U(2)) S.T. Sa(B) = Bo Ad Wa. +B.

This Sa & Imr, Ma here W & Imr.

We dain that the action of NOTA on the West Landons Assuming this, we are done Indeed, first of all this upling those of injective (which in fact we almost him. It should)

Next, if C is a way thanks (in b) and ge NO, then r(gT)C is a West charler there r(gT)C = wC for Some your by the previous theren. The warcht) for Some GENCON SO (Chot) C=C. hence hig T=T by the dain. This of gT) = r(hT)=W, so that Im r cW.