VECTOR SPACE: vector space V over a for each pair of unique element each elements 26 enique element &x in V, such that exists an element in for each of in each element of in V ement y in z element x in each pair of elements d, B in nent & in F and each pair of $(\alpha + \beta)_{x} = \alpha_{x} + \beta_{x}$

EXAMPLE $= (\alpha \chi_1, \chi_2, \chi_3)$ $= (\alpha \chi_1, \alpha \chi_2, \alpha \chi_3)$ y1, y2, y3) 2,23) and

= (x1, x2, x3)+[(y1, y2, y3)+(Z1, Z2, Z3)
$\frac{1}{111} = \chi + (9 + 7)$
that exists an element in V denoted by 0, 84
x+0=x
LALS=>
$x+0=(x_1,x_2,x_3)+(0,0,0)$
$= (x_1 + 0, x_2 + 0, x_3 + 0)$
χ_1, χ_2, χ_3
iv For each elevent
x' in V such that
x + x' = 0
V → V / ()
$\frac{\chi_1 + \chi' = (\chi_1, \chi_2, \chi_3) + (-\chi_1 - \chi_2)}{-(\chi_1, \chi_2, \chi_3) + (-\chi_1 - \chi_2)}$
$= (3, \frac{\chi_2 - \chi_2}{\chi_3 - \chi_3})$
= (0,0,0)
V) For each element of in N
1.x=x such that
5. H.S ⇒
$1. \chi = 1. (\chi_1, \chi_2, \chi_3)$
$= (1, \chi_1, 1, \chi_2, 1, \chi_3)$
$=(\chi_1,\chi_2,\chi_3)$
Vi) Ton och hi O I
or each pair of elements of BEE=Band
$(\alpha, \beta) \sim \alpha(\beta, \gamma)$

