Speaking geometrically, the list of number representing an arrow rooted from origin to a point in space 3) > (0) Well in general, a rector can be much more, but the above gives a simple place to

Bart.

Vector Space: Set of elements form a vector space if any Linear combination of those 2 lie in the vector space. For ex, you have on space, you pick 2 verbisby the and v

Suppose c and d are two scalars / Pu Linear combination of the and V, would CM + dV also lies en the Vector space. Note that c and d an be zero too. · Coming back to geometric point of view M -> recor V -) rector Juty

+ utv (it can be thought of as walking along 2 vectors-Walls from (0,0) to tip of u, then from tip of 11 to tip of 11 the rusult not is the pet that you could have reached directly from 6

CH Scaling vertor has been scaled vector Canbe Squishy Squished as well (CCV) Allamaca

form a vector space itself. example consider R3 as vector space a All of Reparce is Dis a voctor space u take any linear will lie in R3

A plane passing thre origin would be a subspecce of p-For example 1:21+4+3=0 brose U: (アリソリ、3,) EP=> アナリナる,= 04 N: (72, 42, 32) EP=) 12+42+82=0 (CX27Cy2, 882) say W (1)xc+ (2)xd = 0 => W also lies on plane

And another example could be a line passing thru origin. Subspace S, subspace S2 1) 8, US2 -> is not a subspace Cog talce a pt on line three origin Ssince the pt belongs to both the subspace, the resultant break Compiration would also be a subspace a definition.