Bs: Subspace: Inul space: which are subspaces of $R^3 = \begin{bmatrix} b_1 \\ b_2 \\ b_3 \end{bmatrix}$) $b_1 + b_2 - b_3 = 0$ - any linear Equation Con be witten as matrix. [| -] | bz = 0 51 5263 of Decribes nell space of [11-1] 2) b1b2-b3=0 is this linear? We con see [17] De X-also in Fredspace
2 a sany routhyde of vector
2 of Thoss pace is
withde full space. Made ? described by Equator? Not Subspace.

 $\frac{3}{b_{2}} = \frac{1}{0} + \frac{1}{0} + \frac{1}{0} + \frac{1}{0} = \frac{1}{0}$ A sall linearly independent so vector sporee is place, in R 3 =) A, is linner Combratar & A adA $-\frac{1}{2}\left[\frac{1}{2}\left[\frac{1}{2}\right]+\frac{1}{2}\left[\frac{1}{2}\right]$ = 617 = C1 [6] + 62 [0] = 15 Wector Space > But (0) is not inside a (0) + (2 [0]

Connot flid Coefficiant!