	NO 2
<u> </u>	ubspace. > non empty subset that satisfies the
	requirements for a vector space.
	(i) $x+y \in subspace, for V \alpha, y \in Subspace$
(	(i) x+y ∈ subspace , for V x , y ∈ Subspace ii) cx ∈ subspace , for V x € and subspace , V C
خ	I and I should be dosed under vector addition and
	scalar multiplications in the subspace.
	1
o	different from subset
	NG UNIV
ex) (i)	p R3 vectors on a plane which passes through the origin.
(ii)	the origin > smallest subspace.  ) R2 vectors on a line which passes through the origin.  ) lower triongular madrices
(iii	1 R2 vectors on a line which passes through the origin.
(μν	) lower triongular madrices
⊙ The	Column Space of A.
o Colun	an space contains all linear combinations of the
	columns of matrix A.
	$Ax = b$ $\begin{bmatrix} 1 & 1 & 7 & 7 & 6 & 7 \end{bmatrix}$
	$m_{X}n \Rightarrow a_1 a_2 \cdots a_n x_2 \Rightarrow b_2$
	$\begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 $
	$\mathcal{X}_{1} Q_{1} + \mathcal{X}_{2} Q_{3} + \cdots + \mathcal{X}_{n} Q_{n} = b_{1}$
	inear combinations of column vectors equals b.

MOOKEUK