7 (u, ve,, in I set of linearly dependent vectors,	production of the second
if this set is dependent, then	
$a\overrightarrow{x} + a\overrightarrow{y} = 0$	
where a ER and a; \$0 VIEN 1.	nz
Bay we find is vectors that are independent (we can assum	ie the first the
are first; vectors without lose of generality).	
Machodra	
a, v, + a, v, =0	
$\vec{U}_i = -\alpha_i \vec{u} - \alpha_2 \vec{v}_2 - \alpha_2 \vec{v}_1$	
$\overrightarrow{U_{i}} = -\underline{a_{1}}\overrightarrow{U_{i}} - \underline{a_{2}}\overrightarrow{U_{i}} - \underline{a_{3}}\overrightarrow{U_{3}} + \underline{a_{3}}$ $a_{3} \qquad a_{3} \qquad a_{3}$	
(up, b2Vj.) spare the entire space and U, E spare	nd (v)
The second secon	
Jet u E Spandu, uz Un 3	
V = b, v, + b2 v2 + + bmum	
11)=-a, v, -a, v,ai-1vi-1.	
	-
V = b, V, +b, V + + b; (V; + 1 - 0.1) - 0.11	1 + Q + Min +
V = b, v, + b, u, + b, v, + (-a) + (-a) + -a, u, -a; v; a; a;	+ bmu
	1 cm
V= (h, -a,) v, 1 (do -a,) v, + + (h, -a,) v,	Al about
$V = \begin{pmatrix} b_1 - a_1 \end{pmatrix} \begin{pmatrix} u_1 + b_2 - a_2 \end{pmatrix} \begin{pmatrix} u_2 + \cdots + b_{j-1} - a_{j-1} \end{pmatrix} \begin{pmatrix} u_{j+1} + b_{j+1} \\ a_i \end{pmatrix}$	the Van
	m
> V & Span & U, JU2 Uj 1, Uj 11 Um }	
100 pm (1) 22 m (1) 1) (1) 1 (m)	
council dis my 4 - could be	
span of fig om 3 = span of { u, v2 vj., vj., um}	
and a ged	

		Date:		
		A is linearly independent throng only when as \$ 0		
	90	A is linearly independent through only when as \$0 a, U+ q2U2 + + an Un = 0 whose ai to faier vieri ng		
		B is benearly indempt only when b; \$0		
they		in b, (u, -uz) + b2 (u2-u3) + bn-1 (un-1-un) + byun=0		
		given Af Bore linearly independent vectors = a; = b; = 0 + ici. m}		
		segrouping but this also implies the other way around, so, if		
		we can prone b; =0, Then Bu independent		
	_	bp U1 + (b2-b) U2 + (b3-b2) U3 + 1 (bn-bn-1) Un = 0		
		$b_1=a_1 \Rightarrow b_1=0$		
i-1)		$\Rightarrow b_2 = b_1 = 0 \Rightarrow b_2 = 0$		
		and someon,		
		=> B is linearly independent		
	b	A is spanning het, & V & spon (A)		
		2 a. Wita U2 + and 427 &1818		
		N=h(11 -U2) + b2 (U2-U2) + bn-1 (U2-1-U2) + bnU2		
11	1	V= b, v1+ (b2-b1) v2 + + (bnbn-i) vn		
byum				
	1	WKT VG Spin(A) DV & B		
النا	1	> B is le spons vector space		
mum	1			
	1			
	1			
	1			
	1			
	1			
	1			
	1			