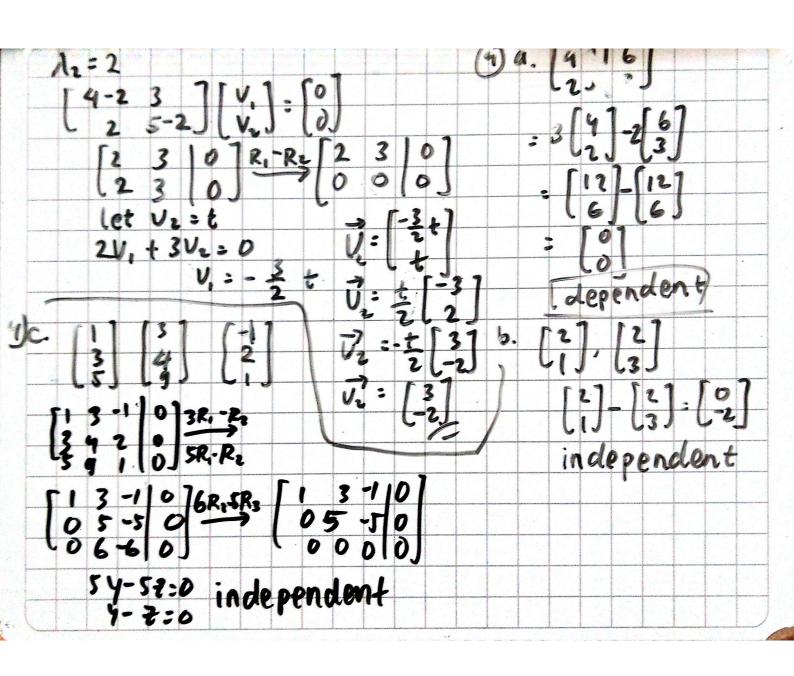
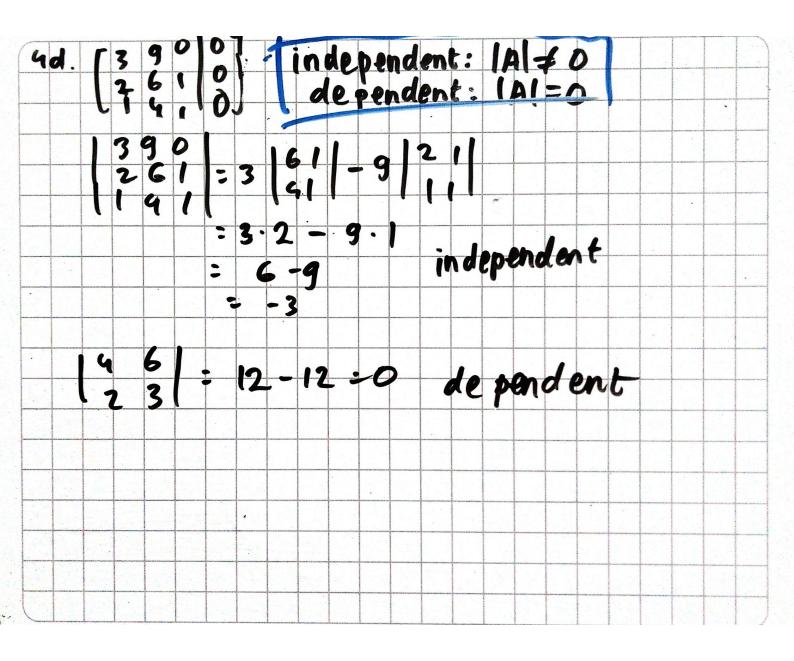
Chapt 4		linear	rind	epena	lence		
TAJ: AJ7		a, v, +	a <sub>s</sub> v	= 0	if a	1,00,	70
		4 lin	Carl	dep	ende	nt	
v can be normalited		ex	12	1.1-	i) ar	o Sbe	caus
10: V							
1 Vy3+V2++V2			12	112	$\begin{bmatrix} 2 \\ 2 \end{bmatrix} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$		and the same of th
characteristic polynom					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	IQI OTA		ta,		1 1 1		
		144	a,=	a2=	0		_
Characteristic equat	ion of A	91	inea	rly i	depe	noten	
1A-AII=0			[2]	6 2	=[0		
			& on	ly if	[a=1	0=0	
Dia gonalization	theorem	h		7			
A=VAV							
diagonalizable: has	n linen	-lu					
inde	penden	t ei ae	Wec	tors			





diagonalize A. 0 1 -1 | 0 0 0 | [1 -2 -1] -1