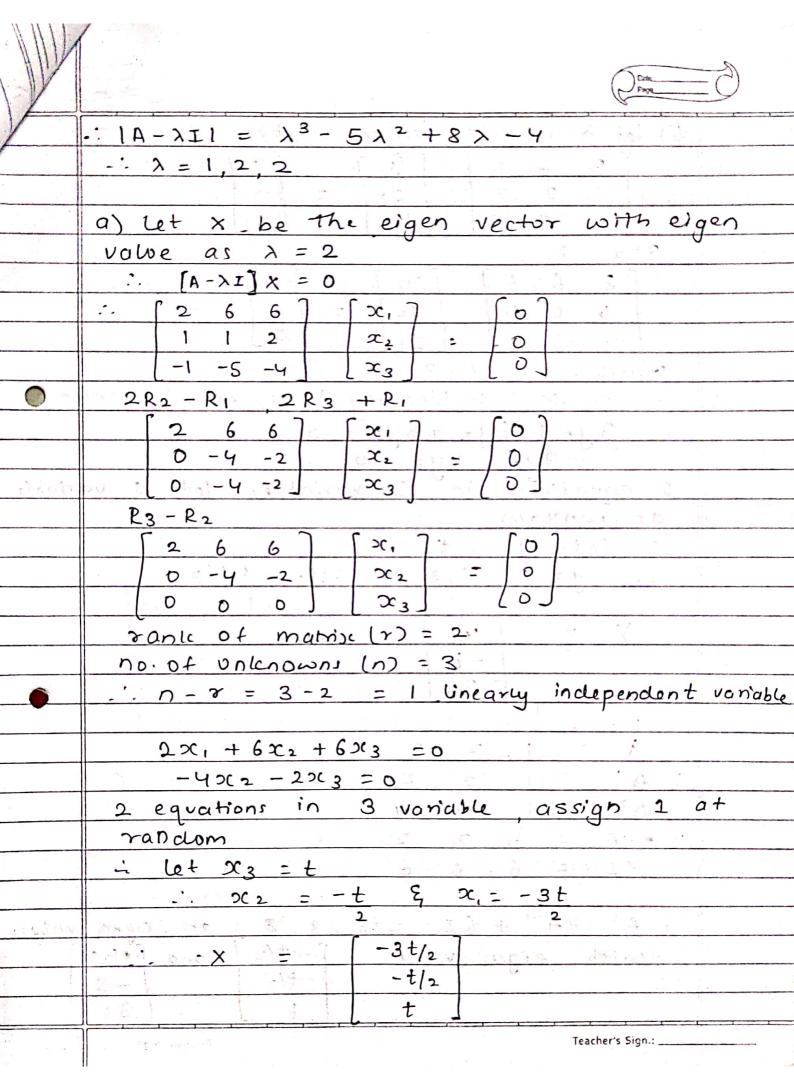
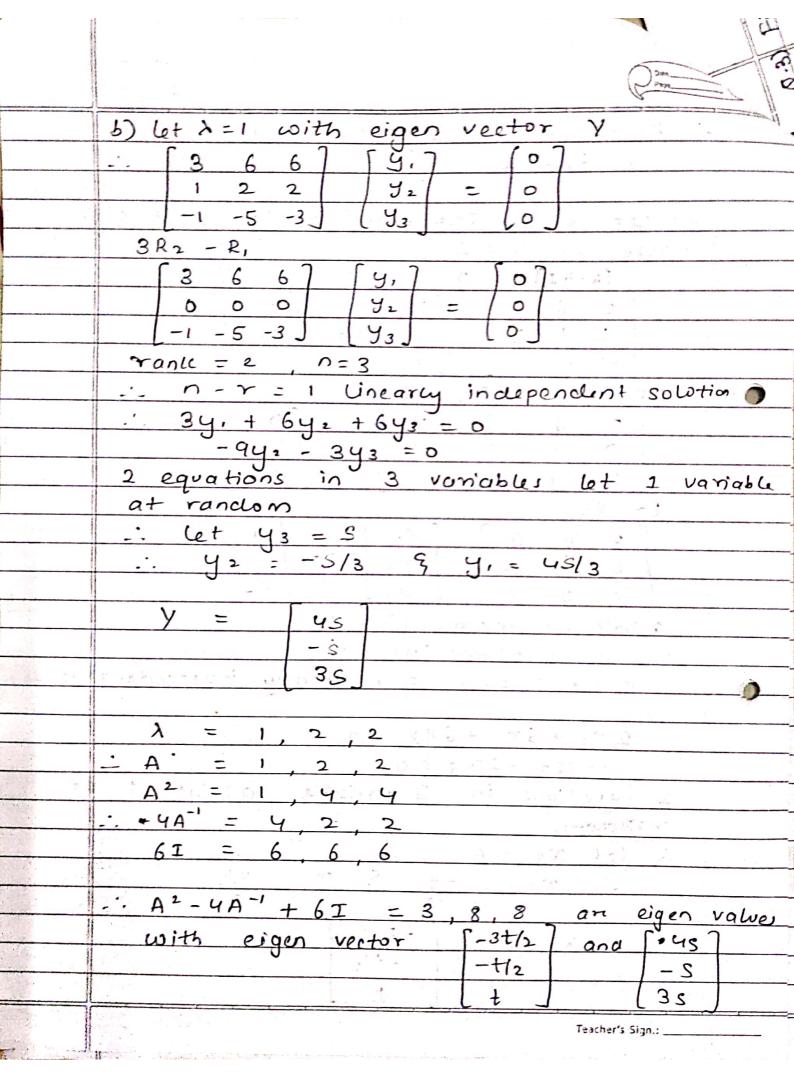
1	Dele
	Tutorial - 1
1)	
	-3 2+21
	2-21 4
	characteristic equation is given as IA-XII
	$ -3 2+2i - \lambda 0 $
	2-2; 4 10 2
_	
	$= \begin{vmatrix} -3 - \lambda & 2 + 2i \end{vmatrix}$
	2-2: 4-2
	$-  A - \lambda I  = (-3 - \lambda)(4 - \lambda) - (2 + 2i)(2 - 2i)$
	$= -12 + 3\lambda - 4\lambda + \lambda^2 - 4 + 4(-1)$
	$= -12 - \lambda + \lambda^2 - 4 - 4$
	$= \lambda^2 - \lambda - 20$
	$-1 - \lambda = 5$ , $\lambda = -4$
-	
	_i Diagonal form = 50
	[0 -4]
Q-2)	Find Eigen values & Eigen vectors of  A2-4A-1+6I for A = [4 6 6]
	$A^{-}-4A^{+}+6I^{-}+6Y^{-}A^{-}= \begin{vmatrix} 4 & 6 & 6 \\ 1 & 3 & 2 \end{vmatrix}$
	$\begin{bmatrix} -1 & -5 & -2 \end{bmatrix}$
	[ -3 -2 <sub>]</sub>
<b>→</b>	champalatic country is alles as 10-271
	characteristic equation is given as IA-AII    4-7 6 6
	1 3-2
	-1 -5 -2->
	$1A - \lambda I = \lambda^3 - 5\lambda^2 + (12 - 6 - 8 - 6 + 6 + 10) \lambda$
V	-4 -4 - 11 - 8 - 8 - 0 7 6 7 (0) X
	Teacher's Sign.;
	reaction 3 digital and a second





	Colu
(3)	Find Eigen values & eigen vectors of
	[3 -1 1] Hence Bigen values & Eigen
	-1 3 -1 Vectors of 20 adj A - 10 A' + 6 I
9	2 6 1 -10-3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	. T.A.
	Characteristic Equation is given as IA-XII=0
	$3-\lambda$ $-10^{\circ}$ 1
	-1 3-λ -1
	1 -1 3
	- 1A-λII = λ3-9λ2+ [9+9+9-(1+1+1)] λ-20=0
	$= \lambda^3 - 9\lambda^2 + 24\lambda - 20 = 0$
	$\dot{\lambda} = 2, 2, 5$
	a) $\lambda = 2$ let $X$ be eigen vector $(A-2I)X = 0$
	Y .
	$\begin{vmatrix} 1 & -1 & 1 &   & \alpha_1 \end{vmatrix}$
	-1 1 -1   202 = 0
	$\begin{bmatrix} 1 & -1 & 1 \end{bmatrix} \begin{bmatrix} x_3 \end{bmatrix} \begin{bmatrix} 0 \end{bmatrix}$
	R3-R1 R2+121
	$\begin{bmatrix} 1 & -1 & 1 \end{bmatrix}$ $\begin{bmatrix} 2t_1 \end{bmatrix}$ $\begin{bmatrix} 0 \end{bmatrix}$
	0 0 0 0 0 762 7 0
	$\begin{bmatrix} 0 & 0 & 0 \end{bmatrix} \begin{bmatrix} x_3 \end{bmatrix} \begin{bmatrix} 0 \end{bmatrix}$
	r=1, n=3 => 2 L·I sol?
	AM-2=
	$x^1 - x^2 + x^3 = 0$
	lequation in 3 unknown assign 2 at
	random.
	a) () Let x1=1 & x2=0; or1=1
	$=) x^3 = -1$
	is its total and an amountil
. yell	Teacher's Sign.:

