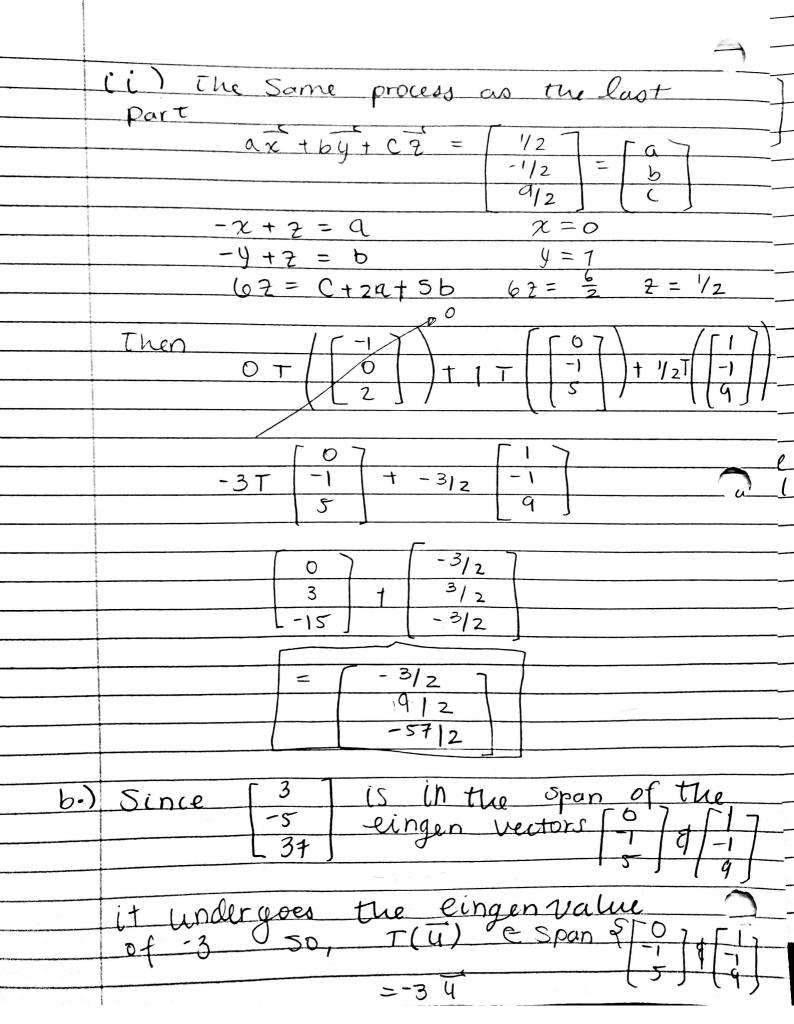
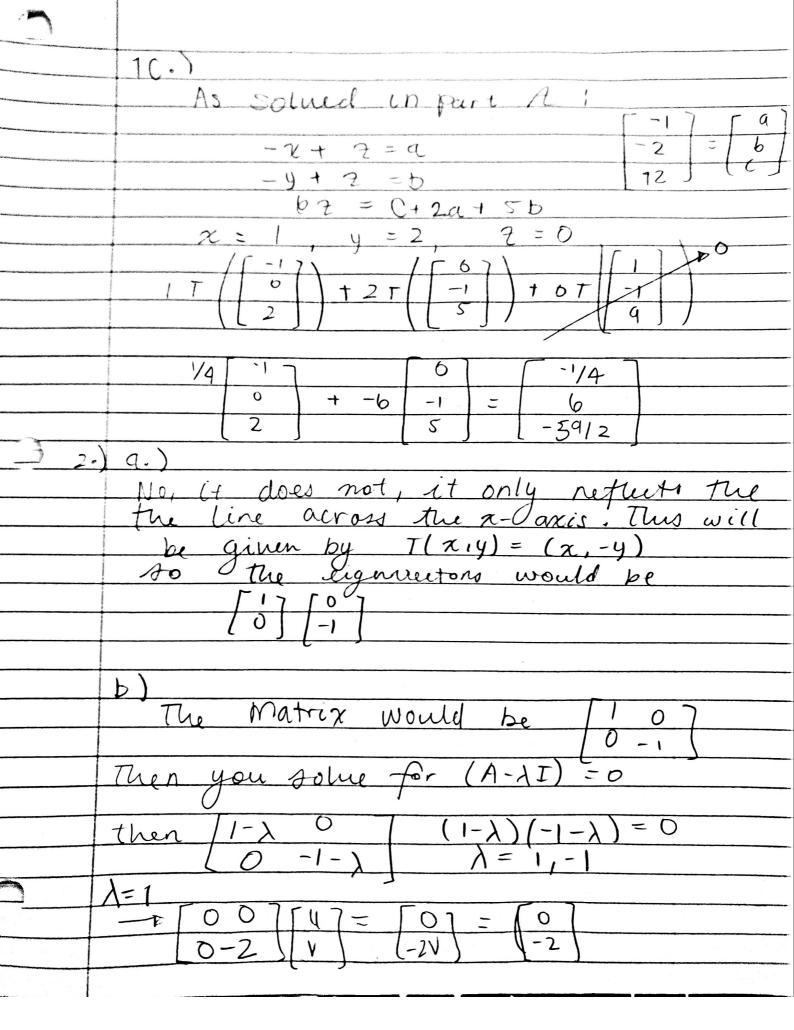
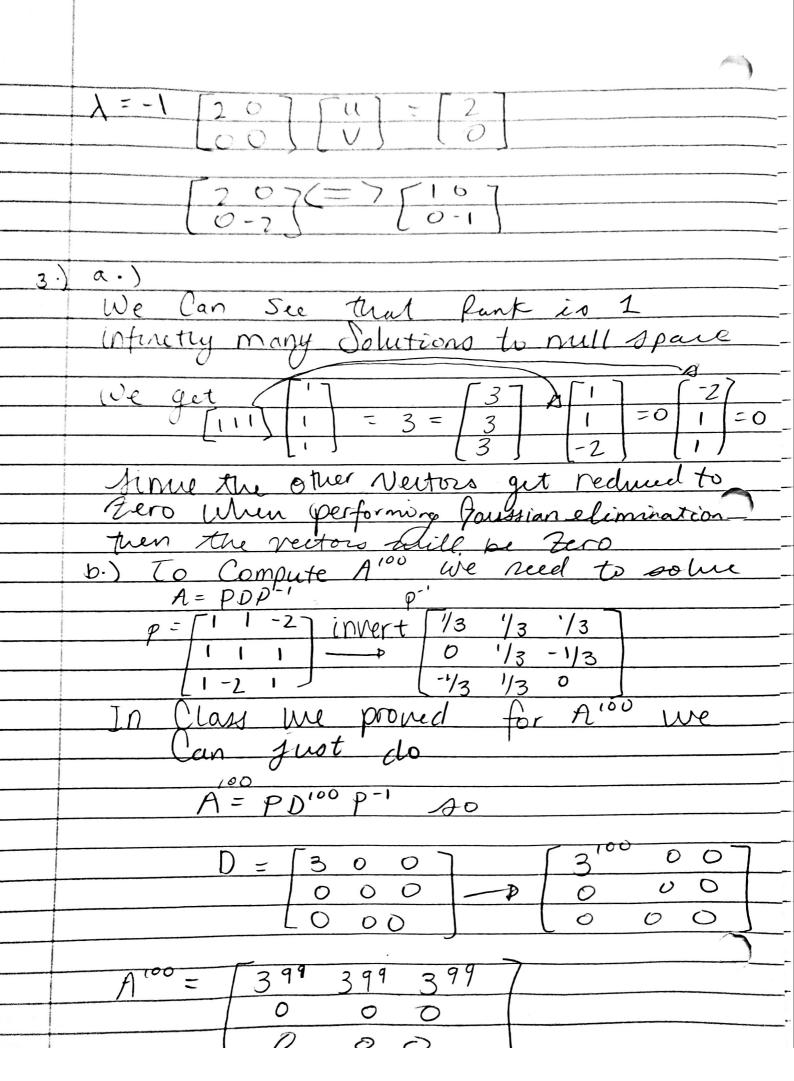
1		MATMIAI Linear Analysis Homework # 17
		A CONTRACTOR OF THE CONTRACTOR
*******	1.	(a.) (i) [-1] [0] [1]
		to - - = pigen Vertors
		2 5 9
·	an estimate year	
-		find a -> -1 0 a R3+2R1=R3
	- Constitution (b 0 -1 -1 b — D
-	and the state of t	$\begin{vmatrix} -1 & 0 & 1 & & 0 & & & & & & & & $
ontohulous)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	-	
	Pro-orange	We want $9\vec{x} + 5\vec{y} + 0\vec{z} = \begin{bmatrix} 3 \\ 6 \end{bmatrix}$
	No.	6
	* 16.00	$(-1x + 7 = 0 \qquad x = -1$
		$\begin{array}{c} -y + z = b \\ \end{array} \qquad y = 2$
		62 = C+2a+5b Z=2
		Then
		[[-1]
***************************************		-IT 0 12T -1 12T -1
		[-1] -6 [0] -6 [1]
		$\rightarrow (-1)(1/4) 0 + (2)(-3) -1 + (2)(-3) -1$
		2 5 9
		$\begin{bmatrix} 1/4 & 7 & [0] & [-6] \end{bmatrix}$
	1=	- D O + 6 + 6
		L-1/2 [-30] [-54]
	-	
	1	= [-23/4]
		12
	1	-164/2
	-	







4.) a.) Solve for Ax=0 tre Compane Az = \for z

ii)

Your need to Dolue The equation

A-\lambda I = 0 to find the

Associated eigen retor io) $Ax = \lambda x$ $A(Ax) = A(\lambda x) = \lambda(Ax) = \lambda(\lambda x)$ $= \lambda^{2}(x) = A(Ax) = A^{2}x = \lambda^{2}x$ $(\chi/\chi)(A^{-1}\chi)$ Whave Ax = kx so $A+I)x = Ax+x = \lambda x+x$