Assignment (1A) Ro-Ra-aR Rg-3R, Ry-By-6R, 2 30 Swap Ro and Ro 1 2 30 1 2 3 0 0 1-2-3/4 multiply 

S(T) 20 8 nullety 21.

$$(A-\lambda_1 2) \gamma_1 2 (\begin{bmatrix} 2 & -1 \\ -1 & 0 \end{bmatrix})$$

X Roby -1/8. The by 8 and add to kg 8 0 2 -3/4 Ry X Y/5 1 -2/8 0 5/4 Non-zero 2000=463

5) 21+3y+2z 20.
3x-y+3z 20.
3x +5y+4z 20.
21+17y+4z 20.

[A:B] 2

1 3 2 0 2 -1 8 0 3 -5 4 0 1 17 4 0

122-128,-R2; R3-13R1-R3/Ry-Ry-R,

1 3 2 0 R2-18-1R8+R2 0 14 2 0 Ry-18+R4

0 28 0 0 0 0 0 0 0

\$ (A:B)=0

for 7 the eigen value 2/ 8) 2 eigen ne don

 $9) \quad 3x - 0.1y - 0.07 \cdot 27.85$   $0.1x + 7y - 0.37 \cdot 2-19.3$  0.3x - (0.3y + 103 - 71.4) 2x - (0) = y(0) > 3(0) = 0

I teration -1

RANKA—

= ((a1+a2)+1)+((b1+b2)+1)n+ (cc++(2)+1)n

= +(u+v) 2T(u)+T(v)

fin) Hamogenity.

let u=a+bx+en² 2 d be any scalau

 $T(cu) = T(da+dbx+dcx^2).$   $= ((da+i)+(db+i)n+(dc+i)n^2)$ 

d+(u)=(d(a+1)+(b+1) x+(c+1)x2)

2 (datd) + (db+d)n+dc+d)n

t (du) f dT(u).

12 Pa Pa s's mot a lémear decons for amption as hoomogens by is not safisfied

g(A). g(A:13) > consestent seplam démons (m > J(A).
Partimety many solution X=+,80, are the para motoric solution o défine loneau duansformation Addeticity let u = a, +b, 2+c, 22 V= a2 +b22+c212 T(u+v)=T((a1+a2)+(b1+b2)n+(C1+c2)n2) 0) ((a)+a)+1)+((b)+b2)+1) x+(cc+c2)+1)2 2) Tu +T(v) 2 (a1+b) +(b1+1) n+Cc1+1) 2+ 2) ((a)+D+ (a2+1))+ ((b)+1)+(b2+1))n+ ((C(+1)+, (c2+1))n2

	P. 40.35
So ralues,	*
2127.66	1
1215.64 132 to 6.46	
J3 2 6. 96.	
Second of exation:	
	6
$\frac{2236+64-85}{3}$	
n = 34.64	
326.46	
the on y = 4x+13-15 = 130.02	
3=16+34-N. 53.06	
7	
values 1	
N=34.64 42130.00, 3= 53.0	)6
1123101	
Thead iteration.	,
The all all all all all all all all all al	v
V = 00 L( 0- W = 120.02 78	53,00
N=23+64-03 42130.02,32	300
0/ - 000 00	
N = 232·33	

N=032.33 and 3=53.06-4=4n+3-15.

Forwaring the equations,

a+86-20=0.

Jatboto=0.

3a+ ob+3c=0.

02 8=9(1,2/3),(8/1,0),(-2/1,3)}

for stobe burns of R3, the rectors must be a linear bindependent

N(1,2,3) +y(3,1,0)+3(-2,1,3)= (0,0,0)

(x+3y-23, 8x+y+3, 3x+33) = (0,0,0)

3x-6y+8z283 -yx+y)-z2-15 n-8y+7z216

tirst éteration

Xz 83+64-23 27.66

3216+34-2

Jhean 2 383 68

80/ on 33 / A= 364.38 / 2= 389.88

a// matrix operation we extensively used in image processing like deamsposed of matrix is fused to restalt the image in various direction and the atus matrix is used to blue wetain area of mage.

Apart Juan she's romage are made up at matrier itself. I Tomages are mode up of pexels which are arranged in guld to produce romage.

lémear dransformation plays very jamportant rule in Jamportant vule in Jampuler

$$\begin{array}{c} \chi^{(1)} \circ 7.85 + 0.1 y^{(0)} + 0.2 (3^{(0)}) & 2.7.85 & 2.3.6167 \\ \chi^{(1)} \circ & -19.8 - (0.1) \chi^{(1)} + 0.83^{(10)}) & 2.3.7571. \\ \chi^{(2)} \circ & 71.4 - 0.3 \chi^{(1)} + 0.3 \chi^{(1)}) & 2.7.1 4 \\ \chi^{(2)} \circ & -7.85 + 0.1 \chi^{(1)} + 0.23^{(1)}) & 2.3.8098 \\ \chi^{(2)} \circ & -19.8 - 0.1 \chi^{(2)} + 0.32^{(1)}) & 2.3.9832 \\ \chi^{(2)} \circ & -19.4 - 0.3 \chi^{(2)} + 0.3 \chi^{(2)}) & 2.7.013 \\ \chi^{(2)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(2)}) & 2.7.013 \\ \chi^{(2)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(2)}) & 2.7.013 \\ \chi^{(2)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(2)}) & 2.7.003 \\ \chi^{(3)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(2)}) & 2.7.003 \\ \chi^{(3)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(2)}) & 2.7.003 \\ \chi^{(3)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(2)}) & 2.7.003 \\ \chi^{(3)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(3)}) & 2.7.003 \\ \chi^{(3)} \circ & -7.85 + 0.1 \chi^{(2)} + 0.2 \chi^{(3)}) & 2.7.003 \\ \chi^{(3)} \circ & -7.003 \\ \chi^{(4)} \circ & -7.003 \\ \chi^{(4$$

For this way we perform this basic operation to a Jeach pixel of the image and find the votated image.