ons-1 - D Additive T(U+V) z) T(U) + T(V) Uza, + b,x + G,x9° V = Q + box + Cox9°  $T(u+v) = T(Ca, +a, x) + (b, +b, y) x + (C_1+C_4)x^{4}$ =) (a, + a,+1) + (b,+b,+1) x + (G+C,+1) x 2 2) (a, + 1) + (b,+1)x+ (C,+1)x+ + (C,+1)+ (b,+1)x+ 2) T(4) + T(V) Mence proved .---D. Momo Jenity T(Ku) => KT(u) I (K (a +bx + cx)) T(KQ+Kbx+Kcxº) =) (Ka + Kb + KC +1) + (K a + Kb + KC +1)x + (K9+Kb+ KC+1) 28 2) K(0+1) + K(6+1) + K(C+1) 2° Do it is liner Transform tion Ans 77 a (1, 2, 3) + b(3,1,0) + C(-2,1,3) 9+b+(20 =) (z-q, b2-q 34+3C+0620 go one sol posible cabaca nonce it is l.I Sum of V3 (R) = 3 & S a/So (on to/m 3 VCCtor and a/So S=L-I go it spons V3(R) making it a bosis for



	PAGE
9->	Suppose we have O-D image represented as grid or prixely.
	Oc Con use A I motion to ratete ground Centre
	(080 - 8ing 0
	Cost 0 - Bing 0
, )	Translation of to origin
	Translate the stome of that it Centre aligne with origina
<i>૭)</i>	Rototion
	apply Rotation motila
3/	Trong lotion R=Ch
	Co-ordinates of Centre
	Co-ordinates of Centre
53	Consistent > hoving atleast 18014 In Consistent
	dependent Clinfilmite Bol"
	Independent ( Unique Bol 4)
	- 11 Sources Comple (80)
	A=> [13 P 0]
	19-13/0
	[3 -5 4 0]
	17770
	Ry -> Ry - QRy / 8 Q O / R3 - QRy
	$R_3 \rightarrow R_3 - 3R_1$ $=$ $0$ $-7$ $-1$ $0$ $R_3 \rightarrow R_3 + 3R_3 + 3R_$
	Ry - Ky - Ky - Ky - 1/9 74 74 19 19 74 74 19 19 19 19 19 19 19 19 19 19 19 19 19
	10-7-10
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Nome - polanth  $\int_{S}^{(H)} = \int_{S}^{A} \left( \frac{1}{2} \int_{S}^{(H)} \left( \frac{1}{2} \int_{S}^{$ ) = 0 [2-1 -1 ] = 0 -1 2-1 So eign vector v =) K

9	a lam Mh
7	pame - patenth  DATE / / PAGE
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9	For AT
9	=> cifen values of A will be
9	1 2 1 25 1 g / & Gigan Vc Chor will be Some
-	dy do 3 gs A
	for A+4I => Eight Voluce for A+4I 101111 be
	for A+4I => Eign Volues for A+4I 10111 60 1,+4, 1,+4 => 5,7 & Eign vectors are Same as
	of A
-	
1.	$A = \begin{bmatrix} 1 & 9 & 3 & 0 \\ 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$
	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	[6 P 7 5] Ry→Ry-6R,
	A 2 1 9 3 0
	0 0 -3 9
	0 -4 -8 3
	0 -9 -11 5
	0 0 1 0 7
	Kg C T T
	0 -7 -8 3 R <sub>2</sub> 2) -R <sub>3</sub>
	0 0 -3 p 4
	A z) [ 1 9 3 0 ]
	0 1 9 -3/4
	0 0 -3 9
	0 4 -11 5
9	Az 1 0 0 5/6   Rand of metria is 3
9	0 1 0 7/14
9	0 0 0 0
0	
	THE RELATIONS OF THE PROPERTY OF THE APPLICATION OF THE PROPERTY OF THE PROPER

Name - Notonsh of mox des of polynomis! Tzgs

dim (12) = 3 Kernel So a Byboset of Kernel T is T(A) = 0 0 2 6 2 C 2 6 (let) Vimension of Kernel = 1 bloz there is only one independent perom der (t)

ACC: to rand sullify theorem rand(T) + mullify(1) =) So rent of T=3 and oullity is 1