

Ry-3 Ry +R3 3 19(A)\$9(A1B) by -1 0 R, -18,-28, 0 0 0 in consistant of 0 0 0 3n - 6y + 2z = 23, -4n + y - z = -15 $\int 4 - 3y + 7z = 16$ u = 23 + 6y - 27, y = -15 + 4u + 2 $2 = (16 - \chi + 3y)/7$ "tu" (1) -> = 23+6-, n=0.67, y=-11.33 itu 2) -> n=-10.85, y= -64.62, Z=-37.77 itu 3 7 n = -289.18, y= -1209.49, z= T: w -> P T: P2 -> P2 T(a+bu/+ en") = (a+1) /+ (b+1) 2 + (1+1) 2 for additivity -> T(u+v) = T(u+T(v) T(u)=(a(+1) + (b+1) u+ (c+1) 2 T(v) = (4+1) + (B+1) u + (x+1) u T(u+v) = (a+x+2)+(b+B+2)u+(c+y+2)u satufyjes additivity. for homogenity > T(du) /= T(da + abu + acu2) dT(u) = d(a+1) + d(b+1) n + d(c+1) 22 satisfyies homogenity

for it is a walled linear transformet? To rotate an image, us would require some matrix (transformations. Consider an angle of relation 'O', 10, R= [cao frino]7 sino wo -Now, to rotate an image represted by a matrix I, me need, Trotak = R. I transformation i applied to the original image matrix, this results in the changed values of each pixel, rendering a rotated image By using lifear transformat", me proposer the data of the image