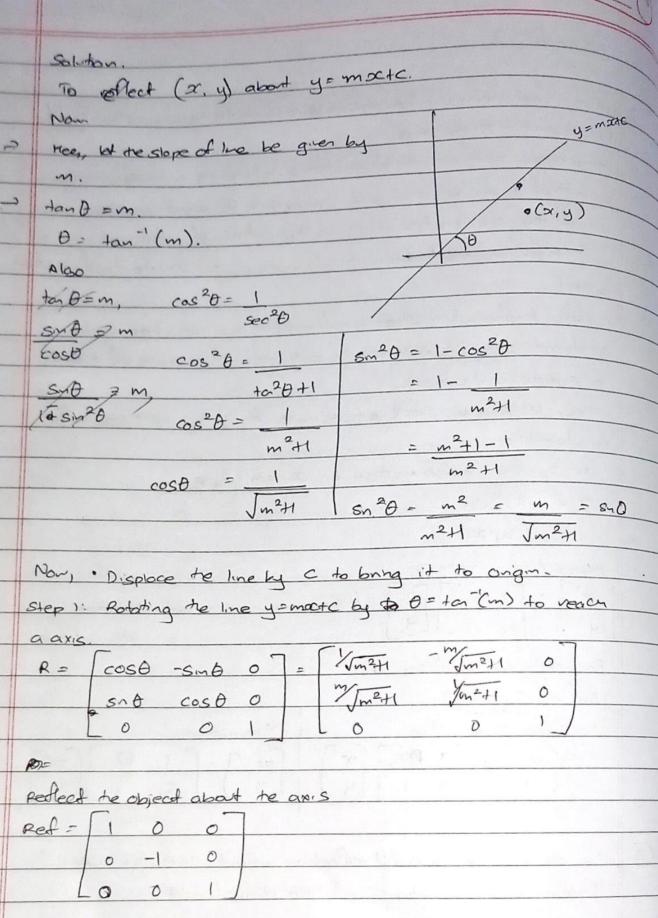


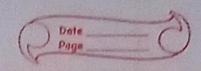
	Assignment 3								
0	unat do you mean by homogeneous coordinate transformation?								
9	Explan about Shear transformation.								
	nonegerous coordinate transformation is defined as a transformation								
7	son that it praides a uniform fanework for transformation								
1	of all the coordinates using multiplication of matrices.								
-	Gropedom moe thatmone transformation, coordinate transformation								
1	is used.								
Sher trasformation sher trasformation is a mon-wind bad.									
trasformation which consists of distortion of a shape of a body in a porticular dication.									
+	trasformation.								
1	on Sx sher trasformation on x an sy on y								
1	$\alpha' = x + S_{x'y}$								
y'= y + Sy. x.									
+	Representing in motives								
#	represending the control of the cont								
\parallel	y' Sx x E for shearing in both directors								
IL	9 7 [29 1 1 1 1]								
1 8	for only one direction,								
<u> </u>	$Sx \text{ or } S_y = 0.$								
	ie for X direction Y direction								
	$\begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix}$								
	on do you perform a 2D reflection about the y=mate?								
Explain he required steps with direction =									
	TI L.								

Date Page
A Second
y=mate
1
• (x, y)
10
cos² b
m ² +1
2+1-1
,2+1
2 = m = 800 r
1 Jm2+1
to origin.
a (m) to vence
Jm211 0
m2+1 0
0 1



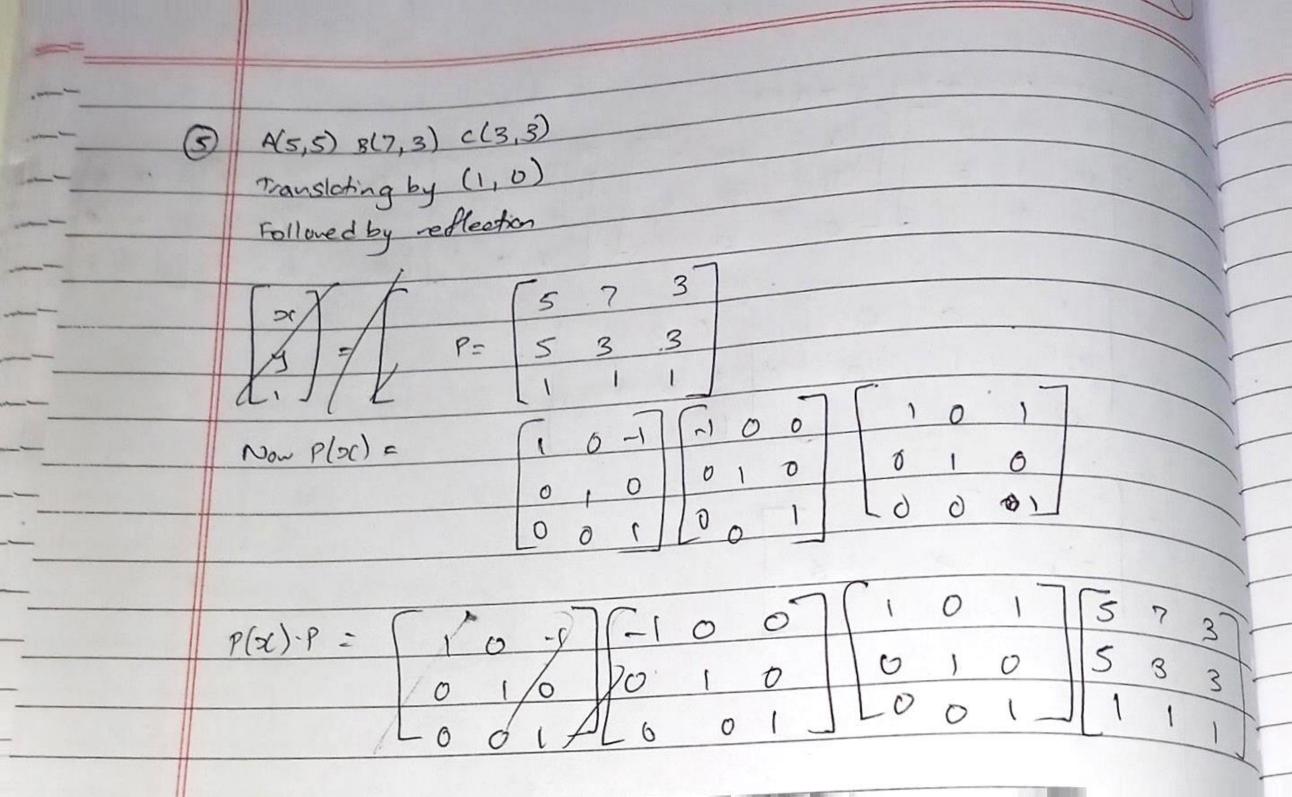
Person revese rotator

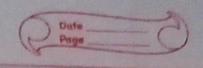
Perform verege transformation



Pow. PP= P(x) P1 June 1 - 1/211 0 p(x) = peula). 1 0 0 01 0 0 Monay Juney 0 -c 07 /5m2+1 1/m3+1 0 ·· Par(x) = 0 Jun 1 / June 1 0 0 C P(x) = 1-m2 2m -2mc mall 2m m2-1 20 met1 m2 H moth P 0 0 Solution A(8,7) B(10,6) C(8,4) @ Traslate so that A(1,9) Hee, Toc = 8-> 1 = -7 7=7-79=2 Nor 0 -7 Q 10 0 2 0 10 0 3 6 8

(3)





@ A(8,7) B(10,6) C(B,9)

Nov,

Now,

		0	-7	8	10	8-	7	(1	3	17
T=	0	1	2	7	6	4		9	8	6
	Lo	0	1	LI	1	1		1	1	

Now, Reflection about y=x+3.

Now,

$$P(x) = \begin{bmatrix} 0 & 1 & -3 \\ 1 & 0 & -3 \\ 0 & 0 & 1 \end{bmatrix}$$

$$P' = \begin{bmatrix} 0 & 1 & -3 \\ 1 & 0 & -3 \\ \end{bmatrix} \begin{bmatrix} 1 & 31 \\ 9 & 8 & 6 \end{bmatrix} \begin{bmatrix} 6 & 5 & 3 \\ -2 & 9 & -2 \\ \hline 0 & 0 & 1 \\ \end{bmatrix}$$

© $a = c(x) = \begin{bmatrix} 1 & 0 & 2 \\ 6 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 & -2 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 & -2 \\ 0 & 0 & 1 \end{bmatrix}$