y = y + ty y' = y + ty yx = 96 9 y = 98 5 9 LB x1= 91 (0 (0+0) Sm. A Go B + Si-B GO P = In (Con & Con & - Sin & Sin O) X = Alorge Cor O - Alsing Sin O -5 y'= Albing (ord + Sin O (or 8) Scaling Federator x = x (or 0 - y Sin 0)

y = y (or 0 + 2 Sin 0) 1/= 7-54

800 plants

800 plan P' = RP $R = \begin{bmatrix} Cor \theta & -8 - \theta \end{bmatrix}$ $R = \begin{bmatrix} T'' \\ S'' \end{bmatrix}$ $P = \begin{bmatrix} T'' \\ Y \end{bmatrix}$ $R = \begin{bmatrix} T'' \\ Y \end{bmatrix}$ (1) Translate a \triangle ABC with in \times direction 8 3 B(5,0), C(5,5) by 2 units in \times direction 8 3 undon x = x + tp unita in y direction. P'= T.6 0 ty] [x, x2 x3] [2 77]

Perform a 45º rotation Alo,0) B(1,1) ((5,2) about the oregin 3. Sin 0 1/2 /2 V3/2 $\begin{bmatrix} x, \\ y, \end{bmatrix} = \begin{bmatrix} \cos \theta & -8 - \theta & 0 \\ 3 \sin \theta & -\cos \theta \\ 0 & 0 \end{bmatrix} \begin{bmatrix} x \\ y \\ 1 \end{bmatrix}$ 1/2 tan 0 = Sin PiJ. 81 = R(0) 8 (0, (2) [480] [0 1 5] Anto Chock rine Robation Alo,0) Bli,1)(8,2)

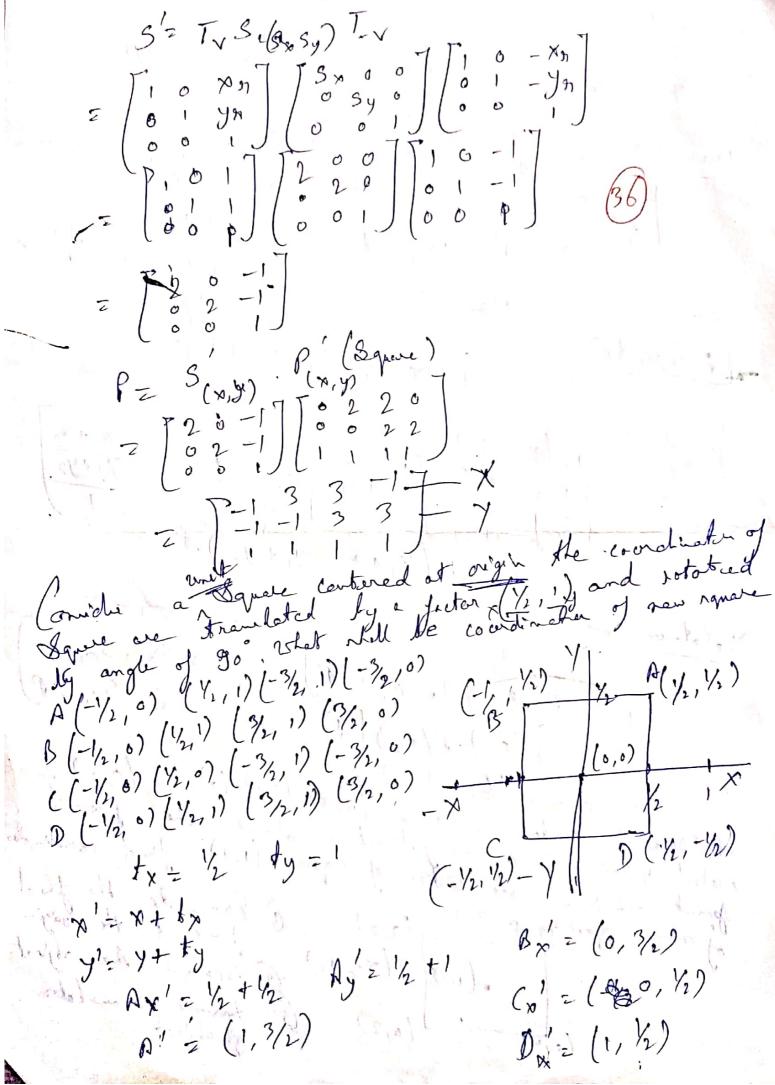
Megnetical to trice ut)

Megnetical to trice ut)

Megnetical to trice ut) bi b Wi = [3 × 0 0] [0 1 5] 0 5 y 0 0 1 1 1 1 (x,y)=(x,y, h) 1 1:1 A (0,0) 8 / E of 3/8 (212) (10,4)

Composite Transformation Hostople -> More Han I transformation (35) Suppose P(x, y) - Intul

P(x', y') - After 2 transation P'= [(x, , y) [T, (x, , y). P] A.o.c. Matrix Mus - Commutative & Anowative = [(x1, y2). T, (x1, y,)]. P] P Ti(ta, ty,) $\begin{bmatrix} 1 & 0 & x_1 \\ 1 & 0 & x_2 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 & 0 & x_1 \\ 0 & 1 & y_1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0 & 0 & x_1 + x_2 \\ 0 & 0 & 1 \\ 0 & 0 & 1 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 & x_1 \\ 0 & 1 & y_1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0 & x_1 + x_2 \\ 0 & 0 & 1 \end{bmatrix}$ $\begin{bmatrix} 1 & 0 & x_1 \\ 0 & 1 & y_1 \\ 0 & 0 & 1 \end{bmatrix} = \begin{bmatrix} 0 & x_1 + x_2 \\ 0 & 0 & 1 \end{bmatrix}$ $\frac{\partial_{1} d_{2}}{\partial z} = \frac{\partial_{2} d_{2}}{\partial z} \left[R(0, 1) \cdot P \right] \qquad P' = S(S_{N_{1}} \cdot S_{N_{2}}) P \\
= \left[R(0, 1) \cdot R(0, 1) \right] P \\
= \left[R(0, 1) \cdot R(0, 1) \right] P \\
P' = R(0, 1 + 0, 2) \cdot P \\
P' = R(0, 1 + 0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0, 2) \cdot R(0, 2) \cdot P \\
P' = R(0$ Bidoles Cotation A Clayane with restraint (0,0) (2,0) (2,2) & (0,2) in realed 2 units in x on y direction about the fixed who des from the tenter of Square (1,1) find conductors from the tenter of square (1,1) of new representations (2,2) (



x'= x (or 0 - y 8in 0) x = 16030 + 3/2 8 in 30 B(-3/2, 1) B(-3/2, 1) C(-1/2, 0) C(-1/2, 0)y'= x Sin 0 + y Cor 0 A point P(8,1) in Notated by go about a privat point (2,2)
Hot in the coordinate of new tenors formed point. P!
Hot in the coordinate of new tenors formed point. P! the coordinate of $T \sim R(0) T \sim -3 \sim 90 \text{ o}$ of 10^{-2} Roruhtant $T \sim 27$ $C \sim 20$ $S \sim 90 \text{ o}$ $O \sim 1$ (mider a \(\Delta(0,0), B(v,1) \(\chi(5,2) \). The \(\Lambda \) her \(\frac{1}{2} \) be stated by 450 angle about proved pt.P(-1,-1). Find another argle.
Twele) T-v by = -1 of men franze. [] x [] 0 | 1 5] atain Jakar. about folk arpin -7 7 = 700 1 700 x'z x + Sh. ») y'= y + xh y.x

(2,2) (4,2) (3,4) - 3 Vilering Transformation. More an -> Chek -> Jours & Cooldingto Mit Alimit

Vindor Cordinate J - View port Cordinate Vierfout 101/2 Donce 20 Niering Transporantien pyrline. MA / MA Construct world coordinate Scene wing modelling coordinate System World Coolabe to wary coordiste (VC)

Convert world worded to normalized ve wing whom water

Webse View Commodiste to normalized ve wing whom when

Webse View Commodiste to normalized ve wing port spenjestion port to Denice Cardinatas Map marmalized weerfort to Denice Cardinatas