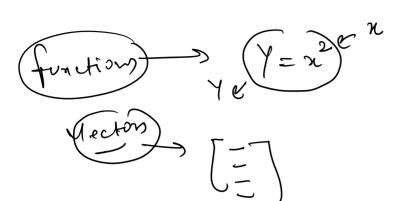
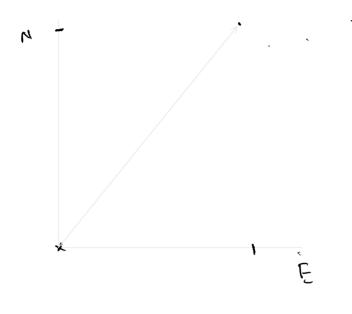
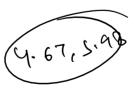
G Combination of hours and column.

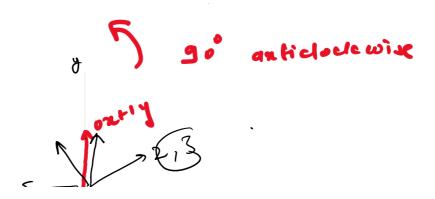


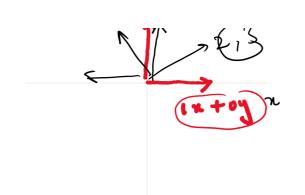
5E, 10 M



Y= x2 °







x-> y

y -> -x

λ;

[] Transformatical []

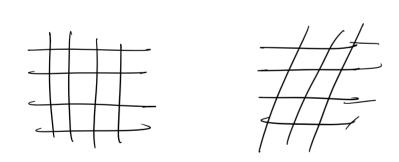
Ji
Transformation (-1)

 $\begin{bmatrix} 2 \\ 3 \end{bmatrix}$

After transformation it is difficult to find the landing vector of any vector on coordinate system.

mifical vetorial Mothan Final lending vector Rotation
Compus

Scen

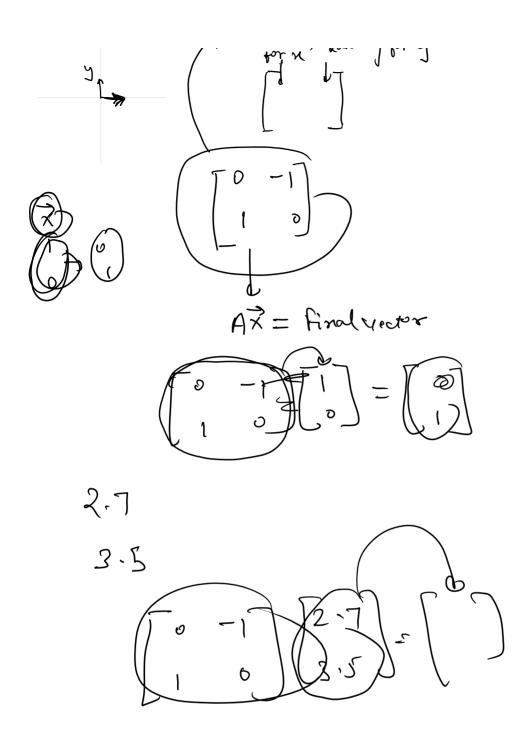


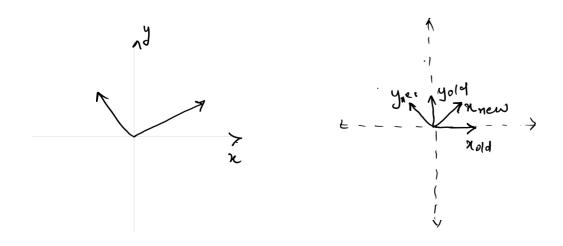
Maths'.

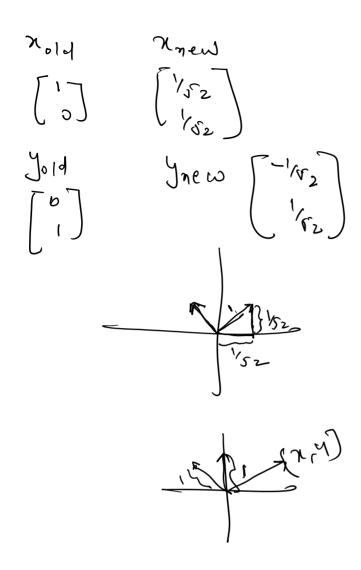
To anticloclowise

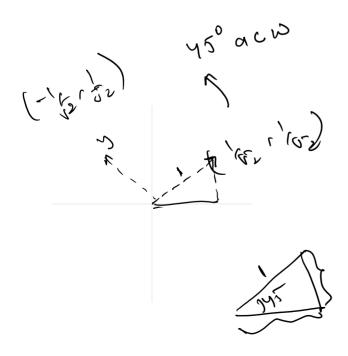
The canding for y

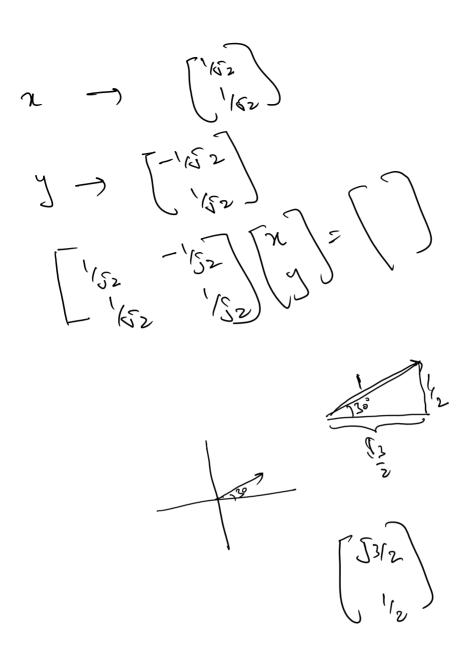
The standing for y

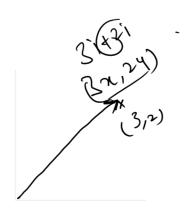






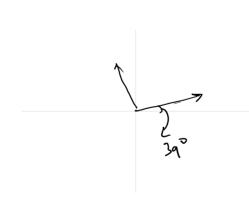






Matrin Algebra







Mateix Algebra:

Addition of Matrices

$$\begin{bmatrix}
3 & 6
\end{bmatrix}$$

$$\begin{bmatrix}
7 & 19 \\
9 & 9
\end{bmatrix}$$

$$= \begin{bmatrix}
3 & 19 \\
12 & 10
\end{bmatrix}$$

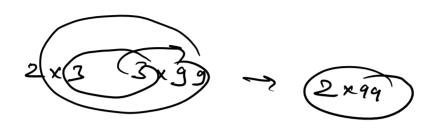
Subtraction of Matrices:

$$\begin{bmatrix} 4 & 6 \\ 10 & 12 \end{bmatrix} - \begin{bmatrix} 2 & 1 \\ 3 & 9 \end{bmatrix}$$

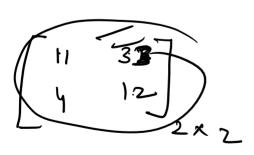
$$\begin{bmatrix} 2 & 5 \\ 7 & 3 \end{bmatrix}$$

Maetiplication

Multiplication of Matrices:



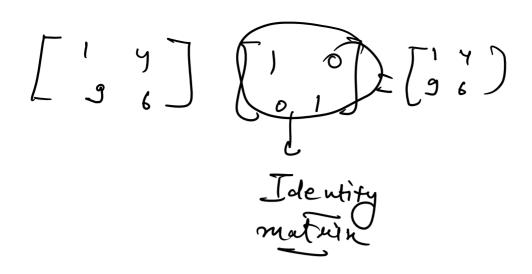




$$A = \begin{bmatrix} 10 & 20 \end{bmatrix}$$

$$A = \begin{bmatrix} 10 & 20 \\ 5 & 15 \end{bmatrix}$$

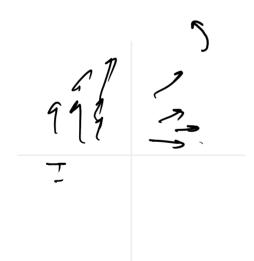
$$A \times B = \begin{bmatrix} 0 & 20 \\ \hline & 15 \end{bmatrix}$$

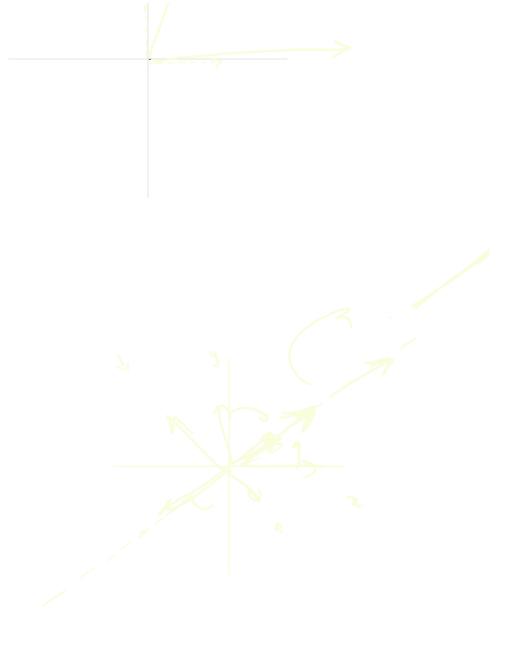


Eigen nahm and Eigen nector:

CA (Principle Component Analysis

SUD (Signar Nahm de composition)





Eigen vector: It is simply a vector which doesnot change its direction on a transformation

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