7, ,

I Find A+B and A-B

$$a7 A = \begin{bmatrix} -4 & 5 \\ 2 & 7 \end{bmatrix} B = \begin{bmatrix} -3 & -3 \\ 0 & 11 \end{bmatrix}$$

$$b7 A = \begin{bmatrix} 1 & 2 & -1 \\ 0 & 1 & 2 \\ 4 & 2 & -3 \end{bmatrix}$$
, $B = \begin{bmatrix} 5 & 5 & 9 \\ 2 & 10 & 9 \\ 8 & 6 & 1 \end{bmatrix}$

ZI kind the prouduct A-13 and B. A

$$27 A = \begin{bmatrix} 1 & -2 \end{bmatrix} R = \begin{bmatrix} 3 \\ -4 \end{bmatrix}$$

[3] Find the inverse matrix A-1 to the matrix A.

$$A = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 3 & 5 \end{bmatrix}$$

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

$$\begin{bmatrix}
-4 & 5 & -2 \\
5 & 3 & 1
\end{bmatrix}$$

Ind The determinant of matrix M.

$$a7 M = 3 4$$
 $\begin{bmatrix} 2 & -5 \end{bmatrix}$

$$b7 M = \begin{bmatrix} 1 & 2 & 4 \\ 2 & 7 & 3 \\ 3 & 1 & -5 \end{bmatrix}$$

[5] Solve the quation given by the determinant

$$\begin{array}{c|cccc} a7 & X^2 + 1 & X \\ \hline & X(X-3) & X-2 & = 0 \end{array}$$

[6] Solve the matrix aquations:

$$A = \begin{bmatrix} 0 & -1 \\ 2 & 1 \end{bmatrix}, \quad \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$$

$$A = \begin{bmatrix} 1 & 0 & -2 \\ 2 & -1 & 3 \end{bmatrix}, B = \begin{bmatrix} 2 & -3 \\ -2 & 0 \end{bmatrix}$$

7 Solving the System using the matrices

$$a7 x + 29 = 5$$

 $9 - 37 = 5$
 $3x - 7 = 4$

$$b74 \times +3y = 4$$

 $2 \times +2y -27 = 0$
 $5 \times +3y + 7 = -2$

$$c7 \times +y + Z = 4$$

 $\times +2y + 4Z = 12$
 $2 \times -3y - Z = 4$

$$d7 2a + 3b + 11C + 5d = 2$$

 $a + b + 5C + 2d = 1$
 $2a + b - 3C + 2d = -3$
 $a + b - 3C + 4d = -3$