$3X = 9 /.3^{-1}$ 

$$Ma+1ce$$

$$3x + 3x = 4$$

$$\frac{\text{Pn.2}}{x} + 25 + 32 = 4$$

$$4x - 25 - 2 = 1$$

$$4x - 25 - 2 = 1$$
 $4 - 25 - 2 = 2$ 

$$\int 1 2 3 | (x) |$$

$$\frac{d}{dx} - \frac{dx}{dx} = 2$$

$$\frac{d}{dx} - \frac{dx}{dx} = 2$$

$$\frac{d}{dx} - \frac{dx}{dx} = 4$$

 $(A^{-1}A = I)$  $A \times = b / A$ x. A = b  $\times .A^{T} | A^{T} \rangle = b \cdot | A^{T} \rangle^{-1}$   $\times .T = b \cdot . (A^{T})^{-1}$  $T \leftarrow \begin{bmatrix} A & A \times = A^{-1}b \\ \hline T \times = A^{-1}b \\ \hline \left( \times = A^{-1}b \right) \end{bmatrix}$  $I = \begin{pmatrix} 100 \\ 010 \\ 001 \end{pmatrix}$ /x = &-.(AT)-1/ pouse pero choercové mahice Def.  $A = \frac{1}{\det(A)} \cdot \operatorname{adj} A$ del (A) = 0 7 maliee near inversm nahice (singulaisi)

v=(12)

násolení mahi e

$$3 \times 2$$
 $3 \times 3$ 
 $3 \times 3$ 

$$E = \begin{pmatrix} 12 \\ 03 \end{pmatrix}$$

$$E \cdot F = G$$

$$= \begin{pmatrix} 145 \\ 45 \\ \end{pmatrix}$$

 $F = \begin{pmatrix} 4 & 5 \\ 6 & -1 \end{pmatrix}$  $E.F = \begin{pmatrix} 42 \\ 03 \end{pmatrix}, \begin{pmatrix} 45 \\ 4-1 \end{pmatrix} = \begin{pmatrix} 1.4+2.6 & 1.5+2.(-1) \\ 0.4+3.6 & 0.5+3.(-1) \end{pmatrix}$ 

$$E.F = \begin{bmatrix} 0 & 3 \\ 0 & 3 \end{bmatrix}, \begin{pmatrix} 1 & 3 \\ 4 & -1 \end{pmatrix} = \begin{pmatrix} 0.4 + 3.6 & 0.5 + 3 \\ 16 & -3 \end{pmatrix}$$

$$E = \begin{pmatrix} 12 \\ 03 \end{pmatrix} \qquad E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 12 \qquad 16 \qquad 3$$

$$F = \begin{pmatrix} 45 \\ 6-1 \end{pmatrix} \qquad 03 \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 7 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E = \begin{pmatrix} 12 \\ 6 \end{pmatrix} \qquad 18 \qquad -3$$

$$E.F = \begin{pmatrix} 16 & 3 \\ 18 & -3 \end{pmatrix} F.E = \begin{pmatrix} 4 & 23 \\ 6 & 9 \end{pmatrix}$$

Definite 
$$A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$
 $deh(A) = a.d - b - c$ 
 $adj(A) = \begin{pmatrix} d - b \\ -ca \end{pmatrix}$ 

$$A^{-1} = \frac{1}{\operatorname{deh}(A)} \cdot \operatorname{adj}(A)$$

$$A^{-1} = \frac{1}{\operatorname{ad}-b\cdot c} \cdot \begin{pmatrix} d - b \\ -c a \end{pmatrix}$$

$$\frac{1}{1}x + 3y = 4$$

$$\frac{1}{2}x + 3y = 5$$

$$\frac{1}x + 3y = 5$$

$$\frac{1}{2}x + 3y = 5$$

$$\frac$$

 $A^{-1} = \frac{1}{\det(H^T)} \cdot \operatorname{adj}(H^T)$ 

 $A^{-1} = \frac{1}{-3} \cdot \begin{pmatrix} 3 & -2 \\ -3 & 1 \end{pmatrix}$ 

 $A^{-1} = \begin{pmatrix} -1 & \ell/3 \\ 1 & -1/3 \end{pmatrix}$ 

 $\Rightarrow_{A} T = \begin{pmatrix} 1 & 2 \\ 3 & 3 \end{pmatrix}$ 

 $(\times y) = (45) \cdot (-12/3)$ 

 $(x \ 5) = (-4+5) \ (x \ 5) = (1)$ 

$$\frac{1}{12x + 3y = 4} \longrightarrow (23) \cdot (3) = (4)$$

$$\frac{1}{2x + 3y = 6} \longrightarrow (23) \cdot (3) = (4)$$

$$\frac{1}{2} \times \frac{1}{3} \times \frac{1}{3} = \frac{1}{$$

$$del(t) = 1.3 - 2.3 = -3$$

$$adj(t) = \begin{pmatrix} 3 - 3 \\ -21 \end{pmatrix} \qquad x = A^{-1}, b$$

$$A^{-1} = \frac{1}{dol(t)} \cdot adj(A) \qquad \begin{pmatrix} x \\ 3 \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 2/3 & -1/3 \end{pmatrix} \cdot \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

$$del(t) = 7.3 - 2.5 - 3$$

$$adj(t) = \begin{pmatrix} 3 - 3 \\ -21 \end{pmatrix} \qquad x = A^{-1}, b$$

$$A^{-1} = \frac{1}{del(t)} \cdot adj(A) \qquad \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 2/3 & -1/3 \end{pmatrix} \cdot \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

$$A^{-1} = A \cdot (3 - 3) \qquad (x) = \begin{pmatrix} -1 & 1 \\ 2/3 & -1/3 \end{pmatrix} \cdot \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

 $A^{-1} = \begin{pmatrix} -1 & 1 \\ \frac{2}{3} & -\frac{1}{3} \end{pmatrix}$ 

$$adj(t) = \begin{pmatrix} 3 - 3 \\ -21 \end{pmatrix} \qquad x = A^{-1}, b$$

$$A^{-1} = \frac{1}{del(1)} \cdot adj(A) \qquad \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} -1 & 1 \\ 2/3 & -1/3 \end{pmatrix} \cdot \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

$$A^{-1} = \frac{1}{-3} \cdot \begin{pmatrix} 3 - 3 \\ -2 & 1 \end{pmatrix} \qquad \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} -1.4 & +1.5 \\ 2/3 & 4 & -1/3 & 5 \end{pmatrix}$$

 $\begin{pmatrix} \times \\ 3 \end{pmatrix} = \begin{pmatrix} 1 \\ 1 \end{pmatrix}$ 

$$X-g+a=2$$

$$X - g + a = 2$$

$$A = 0, t \in \mathbb{R}$$

$$X - g + h = 2$$

$$X-g+a=2$$

x+5 = 1-t

x-9-2-t

 $A \begin{pmatrix} 12 \\ 3/4 \end{pmatrix} \longrightarrow A^{T} = \begin{pmatrix} 23 \\ 24 \end{pmatrix}$ 

$$(x_{1} x_{2} x_{3}) \cdot \begin{pmatrix} 1 & -2 & 3 \\ -1 & 3 & -1 \\ 2 & -5 & 5 \end{pmatrix} = \begin{pmatrix} 9 & -6 & 17 \\ 2 & -5 & 5 \end{pmatrix}$$

$$x \cdot A = b_{1} \cdot (A)^{-1}$$

X = b.(4)-1

$$x + 3y = 4$$
  
 $2x + 3y = 5$ 

$$\begin{pmatrix} 1 & 3 \\ 2 & 3 \end{pmatrix} \cdot \begin{pmatrix} \times \\ 5 \end{pmatrix} = \begin{pmatrix} 4 \\ 5 \end{pmatrix}$$

$$| X |$$

x+35 = 4 2x+35 = 5

$$\begin{pmatrix}
1 & -2 & 3 \\
-1 & 3 & -1 \\
2 & -5 & 5
\end{pmatrix}
\cdot
\begin{pmatrix}
x_1 \\
x_2 \\
x_3
\end{pmatrix}
=
\begin{pmatrix}
1 & 9 \\
-6 \\
17
\end{pmatrix}$$

$$A \cdot x = b - 1 \cdot A^{-1}$$

 $\times = A^{-1} L$