## Mat 125 - 1912452642

1. 
$$x_1 + 2x_2 - 3x_3 + 4x_4 = 2$$
 $2x_1 + 5x_2 - 2x_3 + x_4 = 1$ 
 $5x_1 + 12x_2 - 7x_3 + 6x_4 = 3$ 

the augmented Metrix.

adding - 2 and to the first now and obtain second now adding - 5 to the first now and obtain thind.

Rivotril

Rofixim AtaZ (Roche)

add -2 firms to the 2nd read obtain 2nd read.  $\begin{bmatrix}
1 & 2 & -3 & 42 \\
0 & 1 & 4 & -7 & -3 \\
0 & 0 & 0 & 0 & -1
\end{bmatrix}$ 

multiply the third now by -1

add 3 times to the third row and obtain one add -2 time to the 18st third row and obtain 1st

cdd - 2 tim

$$V_1 = -11v_3 - 18xy$$

$$V_2 = 4v_3 - 7xy$$

$$| Let, v_3 = \pi, x_4 = 5$$

$$| v_1 = -11\pi - 185$$

$$| N_1 = 4\pi - 75$$

$$x_1 = -11\pi - 185$$
  
 $x_2 = 4\pi - 75$ 

Let, 13 = 12, 74 - 5

Here 
$$A^{\sim} = \begin{bmatrix} 10 & -14 & 2 \\ -14 & 16 & 4 \\ 2 & 4 & -8 \end{bmatrix}$$

$$2A = \begin{bmatrix} 10 & -14 & 2 \\ -14 & 16 & 4 \\ 2 & 4 & -8 \end{bmatrix}$$

$$A^{+} = \begin{bmatrix} 5 & -7 & 1 \\ -7 & 8 & 2 \\ 1 & 2 & 4 \end{bmatrix}$$

Rivotril

Rofixim AtoZ

$$A^{2} + 2A + A^{2}$$

$$= \begin{bmatrix} 10 & -14 & 2 \\ -14 & 16 & 4 \\ 2 & 4 & -8 \end{bmatrix} + \begin{bmatrix} 10 & -14 & 2 \\ -14 & 16 & 4 \\ 2 & 4 & -8 \end{bmatrix}$$

$$+ \begin{bmatrix} 5 & -7 & 1 \\ -7 & 8 & 2 \\ 1 & 2 & 4 \end{bmatrix}$$

$$= \begin{bmatrix} 25 & -35 & 5 \\ -35 & 40 & 10 \\ \hline 35 & 10 & -12 \end{bmatrix}$$