3x + 4y = 1x

$$\begin{cases}
3x + 4y = 1x \\
1x + 0y = 0 \\
0x + 1y = 0
\end{cases}$$

$$\hat{\mathcal{L}} = \begin{pmatrix} 3 & 4 \\ 1 & 0 \\ 0 & 1 \end{pmatrix} \qquad \hat{\mathcal{L}}^{\dagger} = \frac{1}{1.6} \begin{pmatrix} 3 & 17 & -12 \\ 4 & -12 & 10 \end{pmatrix} _{\bullet}$$

$$X \approx \frac{1}{2.6} \begin{pmatrix} 3 & 12 & -12 \\ 4 & -12 & 10 \\ 0 & 0 \end{pmatrix} = \frac{1}{13} \begin{pmatrix} 15 \\ 24 \end{pmatrix}$$

$$\widehat{\hat{\mathcal{L}}} = \begin{pmatrix} 2 & 3 & 2 \\ 3 & 4 & -1 \end{pmatrix} \qquad \widehat{\hat{\mathcal{L}}}^{\dagger} = \frac{1}{166} \begin{pmatrix} I_1 & I_2 \\ I_4 & 2D \\ 65 & -45 \end{pmatrix}$$

3a gahus. 3
$$\hat{\mathcal{L}} = \begin{pmatrix} 1 & -3 & 0 & 1 \\ 0 & 2 & -3 & 0 \\ 1 & -2 & 1 & 1 \\ 1 & 0 & -2 & 1 \end{pmatrix}$$

$$\hat{\mathcal{L}} = \frac{1}{30} \begin{pmatrix} -12 & -3 & 15 & 12 \\ -15 & -2 & 10 & 5 \\ -14 & -5 & 15 & 12 \end{pmatrix}$$

$$\frac{1}{30} \begin{pmatrix} -12 & -3 & 15 & 12 \\ -18 & -2 & 10 & 8 \\ -18 & -5 & 10 & 2 \\ -12 & -3 & 15 & 12 \end{pmatrix}$$

$$\widetilde{\mathcal{H}}$$
ak kok det $\widehat{\mathcal{L}}$ =0 => pewerne re eguntberho

$$A^{\dagger}A \times A \times A^{\dagger}b \stackrel{Dc}{\Leftarrow} \times A^{\dagger}A = bA \Rightarrow \times A^{\dagger}AA^{\dagger} = bAA^{\dagger} = \times A^{\dagger} \implies \times A = b$$