$$\underbrace{EX.1.}_{03} \begin{bmatrix} 30 \\ 03 \end{bmatrix} \cdot X + 2 \cdot \begin{bmatrix} 12 \\ -35 \end{bmatrix} = 5 \cdot X + 6 \cdot \begin{bmatrix} 3 \\ 2 \end{bmatrix}$$
 Find X .

EX.2. Let
$$A = \begin{bmatrix} 1-23 \\ -23-1 \\ 3-12 \end{bmatrix}$$
 Calculate det A. Use a) the Serru's method b) the Laplace theorem.

$$EX.3$$
: Let $A = \begin{bmatrix} 1 & 2 & 3 \\ 4 & 3 & -1 \\ -1 & 1 & -1 \end{bmatrix}$. Find A^{-1} .

EX.4.
Let
$$A = \begin{cases} -1 & 2 & 4 & -3 \\ 2 & -1 & -3 & 2 \\ 4 & 3 & -1 & 3 \\ 3 & 2 & -2 & 4 \end{cases}$$
. Find det A .