- Sherman - Morrison) :) A : Squae motor x i) u, v : vectors $(A + uv^{T})^{-1} = A^{-1} - \frac{A^{-1}uv^{T}A^{-1}}{1 + v^{T}A^{-1}u}$ i) A: Square nation X

N) V, C, V) matrix A+VCV) - A- A-V(C-+VA-V)-VA-1 1- partitioned Matrix [A11 A12] = [A11 (Z+A2FA11) -A1A2F - [A21 A21] = [-FA21A11] F= (A22-A21A11 A12)-1 F= (A11-A12A22 A21)-) - It makix A has an Inverse Matrix

Ax=A-b $\begin{array}{ccc}
 & Jx = A^{-1}b \\
\hline
 & x = A^{-1}b
\end{array}$