LINEER SISEMLER AX = B AX = B Lancanz - - ann J[xn] [bn] örner A = [-1 2], B = [-2 3] $2A - 3B = \begin{bmatrix} -2 & 4 \\ -6 & 9 \\ 6 - 8 \end{bmatrix} - \begin{bmatrix} -6 & 9 \\ 3 - 12 \end{bmatrix} = \begin{bmatrix} 4 & -5 & 7 \\ 11 & 22 \\ 33 & -29 \end{bmatrix}$ örnel: A=[23], B=[38-6] A.B=[2 3][5 -2 1] = [7 34 -25] $X = \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} x_1 & x_1 & x_3 \end{bmatrix}^T = \begin{bmatrix} 47 \\ 3\\ 3 \end{bmatrix}$ 50N: A=[2 3 8] => IA = det (A)=? = 2 (45-6)-3(-36+7)+8(24-35)=62+3.(29)-88 = 78+87-88=78-1=77

Back Substitution (Gers genere kayon) Xn = In Xn-1 - bn-1 - an-12n Xn-2 = 5noz anza-ix-i-9nanxn Cover down to Xk= bk- j=k+1 xs Strele - 4x1-x2+2x3+3x4=20 -2×1+7×3-4×4=-7 6×3+5×4=4 3×4=6 X4 = = = 2 xy= 4-5(2)=-1 X2=-7-7(-1)+4.(2) =-4 X1= 20+(-4)-2(-1)-3(2)

% Project Brech substitution % XL = - bu - Fell aligns able furction X = backsub(A.B) % A non opportional more % B NAY prepared n = length (B); X = Zesos (n.D) X(n) = B(n) / A(nun); 800 le= n-1: -1:1 X(L)= (B(L)-A(K, Kti:n) * X (Kti:n)) / A(L, E); end 2×1+4×2-6×3=-4 2x1+4x2-6x3=-4 3×2+6×3=12 X1+5X2+3/3-10 ornel 3×3=3 X1 +3×2+2×3=5

Frak X+X2=11 sistemina quin tomes! ness? X1- X2 = 1 [: - :][x] = []] (1) GOZDmr X1+X2 = 11 E. K. 26, 53 - X1-X2=1 2x = 12 6+X7=11 XI+XI=II =) [X = 6] = (X2=5) $X_1 + X_2 = 11$ $X_1 - X_2 = 1$ $X_1 - X_2 = 1$ 2) X1 +X2=11 2x, +0x=12 $X_1 + X_2 = 11$ $2X_1 = 12 = 1$ X1=6 X2=5 $\frac{\forall ADA}{X_1 - X_2 = 1}$ $\frac{X_1 + X_2 = 1}{X_1 - X_2 = 1}$ $\frac{X_1 - X_2 = 1}{X_1 - X_2 = 1}$ R2 -) - 2 R2 X1+X2=11 X2=5 => X1+X2=11 X1+5=11 3) $X_1 + X_2 = 1$ $\Rightarrow AX = B$ $X_1 - X_2 = 1 \Rightarrow A = 7 = X$ (XLF6 $\begin{bmatrix} 1 & -1 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \end{bmatrix}$ $A=\left[\begin{array}{c} 1\\ 1\\ 1\end{array}\right] \Rightarrow A=\left[\begin{array}{c} -1\\ 1\\ 1\end{array}\right]$ A. A = エコ [(-1][2 - 2] = [2 - 2] = [0]

$$AX = B \Rightarrow X = A \cdot B \Rightarrow \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = A \cdot \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = A \cdot \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_1 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_1 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 \\ x_1 \end{bmatrix} =$$