Christenion] $\begin{bmatrix} 1 & 2 & -3 \\ 2 & 1 & -3 \\ -1 & 1 & 0 \end{bmatrix} \begin{bmatrix} 2 \\ 4 \\ 2 \end{bmatrix} = \begin{bmatrix} 5 \\ 15 \\ -8 \end{bmatrix}$ Problem x+2y-3z=5 $\begin{bmatrix} 1 & 2 & -3 \\ 2 & 1 & -3 \\ -101 & 0 \\ 3 & -3 \end{bmatrix} \cdot \begin{bmatrix} x \\ y \\ Z \end{bmatrix} = \begin{bmatrix} 5 \\ 13 \\ -3 \end{bmatrix}$ 2x+y-3z=13-x+y=-8 $-\frac{1}{1+1} \frac{1}{1+1} \frac{1$ [30=0; infinitely 0-33] [X] = [5]

many solutions 0 0 0] [Z] = [5] Problem A = [-3 -3], B = [-3 -2] A-B not possible, rows of A must eg nal cols of B