Assignment 3 Yizhan La In-7936 misa eele

$$W = \beta_{p} \alpha_{1}^{p} + \beta_{p-1} \alpha_{1}^{p-1} + \cdots + \beta_{q_{1}} + \beta_{q_{2}} + \beta_{q_{3}}, \beta_{q_{4}} \in \mathbb{R}$$

$$= [\alpha_{1}^{p} \alpha_{1}^{p-1} - \cdots - \alpha_{1}^{q_{2}}] [\beta_{p} \beta_{p-1}^{p-1} \cdots \beta_{q_{3}}] \xrightarrow{T} \text{ in } b_{1}$$

$$A_{1} = cl. \qquad A_{2} = \begin{bmatrix} \alpha_{1} \beta_{1}^{p} & \cdots & \alpha_{1} \\ \alpha_{1} \beta_{1}^{p} & \cdots & \alpha_{2} \\ \vdots & \vdots & \vdots \\ \alpha_{m} \beta_{1}^{p} & \cdots & \alpha_{m} \end{bmatrix} \qquad d_{2} = \begin{bmatrix} b_{1} \\ b_{2} \\ \vdots \\ b_{m} \end{bmatrix} \qquad \chi = \begin{bmatrix} \beta_{p-1} \\ \beta_{q_{4}} \end{bmatrix}$$

$$\hat{x}_j = \text{proj}(x_j) = (x_j, x_j) = \begin{bmatrix} 1/s & \dots & 1/s \\ \vdots & 1/s & \dots & 1/s \end{bmatrix} x_j.$$

(18.2 48. p 14. F1 14.21 24.8, Ff 21 24 51 34 5.81)

()

W= T1x: [13.72 12.17 8.05 15.21 17.44 5.84 5.3] 5.47 -6.02 3.47 -2.37 3.1 1.1 3.47]

to requere velu for sirfo, portue velve for romence.

$$X - 7W = \begin{cases} 0 & 0 & -0.57 & 0.52, & 0.57 & 0 & 0.47 \\ 0 & 0 & -0.47 & 0.47 & 0 & 0.6 \\ 0 & 0 & 0.67 & -0.67 & 0 & -0.37 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.67 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.67 & -0.47 \\ 0 & 0 & 0.67 & -0.47 & 0 & -0.47 \\ 0 & 0 & 0.$$

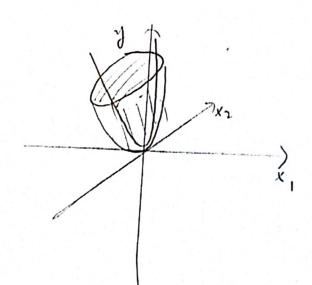
Values would change , Projecting to the some worthward busis

4. 0)

2)

50, Q> \$

۶, .



1 = Xi+ 2x2

VIRVICOVI) PRV>4

since vvi you he can early omit all vvi from

the lefe hand side

Then UTRIRV >\$, QIU>4

