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Objetive funch:

optimal translation make weighted (entroid of Q blug to be F(k,t)

zargnez (w.y.TRn;)

$$X = \begin{bmatrix} 1 & 1 & 1 \\ 3 & 3 & 3 & 1 \end{bmatrix}$$

$$X = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 2 & 3 & 3 & 1 \end{bmatrix}$$

$$X = \begin{bmatrix} 1 & 1 & 1 & 1 \\ 2 & 3 & 3 & 1 \end{bmatrix}$$

$$\begin{bmatrix} \omega_1 & 0 & - & 0 \\ 0 & \omega_2 & - & 0 \\ - & \omega_3 & - & 0 \end{bmatrix} \begin{bmatrix} - & \omega_1^T - \\ - & \omega_2^T - \\ - & \omega_n \end{bmatrix} \begin{bmatrix} \gamma_1^T - \\ \gamma_1^T - \\ - & \gamma_n^T \end{bmatrix} \begin{bmatrix} \gamma_1^T - \\ \gamma_1^T - \\ - & \gamma_n^T \end{bmatrix}$$

as V, R, U are orthogonal matrices

80 M=VTRU is also orthogonal watrix

M; T M; = (

E is a chiagonal matrix with chiagonal entries as

$$tr(EM) = \begin{pmatrix} 6_1 \\ 6_2 \end{pmatrix} \begin{pmatrix} m_{11} & m_{12} & --m_{1d} \\ \cdots & m_{22} \\ \cdots & \cdots \\ m_{nn} \end{pmatrix}$$

60 mi =1 + i

and all other elementes are o

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Note: if P & Q have reflection transformation (det(voT)=-1)

No R (robational matrix) con give exact transformation