31,25

Example
$$X_{0} = \begin{bmatrix} 0 \\ 1 \end{bmatrix} \qquad X_{1} = X_{0}$$

$$\underline{x}_{i} = \begin{bmatrix} -1 \\ 2 \end{bmatrix} \qquad \underline{x}_{i} = \begin{bmatrix} -.4472 \\ .8944 \end{bmatrix}$$

$$\chi_2 = K \chi_1 = \begin{bmatrix} -.6347 \\ .7869 \end{bmatrix}$$
 [after normalizing]

norm = 2,86

$$X_3 = K X_2 = \sqrt{-.6805}$$
 2,98

$$x_4 = K x_3 = \begin{bmatrix} -.69837 \\ .7158 \end{bmatrix}$$
 2.998

$$X_5 = k X_9 = \begin{bmatrix} -.7042 \\ .7100 \end{bmatrix}$$
 2.9998

$$X_0 = KX = \begin{bmatrix} -.7061 \\ .7081 \end{bmatrix}$$
 3.0000

31.24

A new matrix DI is formed

DI = K- N, U, U,

It will not have the eigenvalue N.

DJ=[生 生]

It has egenvalues o and 1

The remaining eigenvalues can be leteraried by repeating this with the new metrix,