

CONSIDER

$$\begin{bmatrix} 1.2969 & 0.8642 \\ 0.2161 & 0.1441 \end{bmatrix} = A$$

$$\begin{bmatrix} 0.8642 \\ 0.1440 \end{bmatrix} = b$$

$$\begin{bmatrix} 0 \\ 1 \end{bmatrix} = x_1$$

$$\begin{bmatrix} 0.9911 \\ -0.4870 \end{bmatrix} = x_2$$

SHOW

$$x = \begin{pmatrix} 2 & -2 \end{pmatrix}^T$$

LET SHOW TO  $Ax = b$

$$\begin{bmatrix} \dots \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0.8642 \\ 0.1440 \end{bmatrix}$$

$$1.2969 x_1 + 0.8642 x_2 = 0.8642$$

$$\text{IF } \begin{bmatrix} 1 \\ 0 \end{bmatrix} = x \quad \text{IS } x_1$$

SOLN

$$1.2969 \cdot 2 - 0.8642 \cdot 2 = 0.8642$$

$$0.8642 =$$

$$0.2161 \cdot 2 + 0.1441 \cdot (-2) = 0.1440$$