9. Hafta Çarşamba Dersi

$$\Rightarrow \{v_1, v_2, v_3\} \quad \text{linear lagranuligi de softer} \Rightarrow \{v_1, v_2, v_3\} \quad \text{bir banker}$$

$$\Rightarrow \text{din}(S) = 3$$

$$\Rightarrow$$
 din(s) = 3

2x2 digagonal matristein R2x2 In bir alturay olduğun postemiştik bir bat bulunut ve boyut medir? dim (1822) = 4 Bu atturay kin - S= { [d, 0] : d, d2 EIR }

$$S = \begin{cases} \begin{bmatrix} d_1 & 0 \\ 0 & d_2 \end{bmatrix}_{2 \times 2} & \underbrace{d_1, d_2 \in \mathbb{R}} \end{cases}$$

$$Shih \quad \text{tipik bir eleman}$$

$$\begin{bmatrix} d_1 & 0 \\ 0 & d_2 \end{bmatrix} = \begin{bmatrix} d_1 & 1 & 0 \\ 0 & 0 \end{bmatrix} + \begin{bmatrix} d_2 & 0 & 0 \\ 0 & 1 \end{bmatrix} \Rightarrow \begin{cases} \vec{v}_1, \vec{v}_2 \end{cases}$$

$$\begin{cases} \vec{v}_1 & \vec{v}_2 \\ \vec{v}_1 & \vec{v}_2 \end{cases}$$

$$\begin{cases} \vec{v}_1 & \vec{v}_2 \\ \vec{v}_2 & \vec{v}_2 \end{cases}$$

$$\begin{cases} \vec{v}_1 & \vec{v}_2 \\ \vec{v}_2 & \vec{v}_2 \end{cases}$$

$$\begin{cases} \vec{v}_1 & \vec{v}_2 \\ \vec{v}_2 & \vec{v}_2 \end{cases}$$

$$|R| = \left\{ \begin{bmatrix} 1 & 0 \\ 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}, \begin{bmatrix} 0 & 0 \\ 0 & 1 \end{bmatrix} \right\}$$
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Bu barn tim att kinder lines bajonvitder.

$$\begin{cases} x_1^2, x_2, x_3, x_4 \end{cases} \qquad \begin{cases} \mathbb{R}^4 & \text{isin bir baz belieffer and } \\ \text{dim} (\mathbb{R}^4) = 4 \end{cases}$$

$$\begin{bmatrix}
1 & 0 & 0 & 1 \\
0 & 1 & 2 & 0 \\
1 & -1 & 2 & 0 \\
0 & 2 & 1 & 1
\end{bmatrix}$$

$$d_{x}+(x) = \begin{bmatrix} 1 & 2 & 0 \\
-1 & 2 & 0 \\
2 & 1 & 1
\end{bmatrix}$$

$$= \begin{bmatrix} 1 & 2 \\
-1 & 2 \end{bmatrix} - (- \begin{bmatrix} 1 & 2 \\
2 & 1 \end{bmatrix}$$

$$= 2-(-2) + 1-4$$

= $4-3=1 \neq 0$

$$\frac{\vec{x}_1 = (2,1)}{\vec{x}_2 = (4,3)}$$
a) $\{x_1, x_2\}$ hin $\{R^2\}$ isin bat oldgin poster.

$$\frac{\vec{x}_2 = (4,3)}{\vec{x}_3} = (7,-3)$$
b) $\{x_1, x_2, x_3\}$ their baginar under, reden?

a)
$$|x| = 6 - 4 = 2 \neq 0$$
 $\{x_1, x_2\}$ lin. bailings \Rightarrow $\frac{|x^2|_{1 \leq 1}}{6001 - dir}$.

Lineer Cebir Sayfa 2

a)
$$\begin{vmatrix} 2 & 4 \\ 1 & 3 \end{vmatrix} = 6-4 = 2 \neq 0$$
 $\underbrace{\left\{ \times_{i}, \times_{i} \right\}}_{\text{con-dir}}$ ein. baginsp \Rightarrow $\underbrace{\left\{ \text{con-dir} \right\}}_{\text{con-dir}}$

c)
$$Span \{x_1, x_2, x_3\} = \{\underbrace{x_1(x_1)}_{x_2} + \underbrace{x_2(x_2)}_{x_3} + \underbrace{x_3(x_3)}_{x_3} : \underbrace{\alpha_{1,1}\alpha_{2,1}\alpha_{3}}_{x_3} \in \mathbb{R}^2 \\ \underbrace{x_3 \in \mathbb{R}^2}_{x_3} : \underbrace{x_3 \in \mathbb{R}^2}_{x_3} \in \mathbb{R}^2 \\ \underbrace{x_$$