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 $UCSPREDE AUSTRALISED STANDER STA$

C) Sei
$$B = \{ \begin{pmatrix} -2 \\ 0 \end{pmatrix}, \begin{pmatrix} 3 \\ 0 \\ 1 \end{pmatrix} \}$$

Seien
$$\lambda_1, \lambda_2 \in \mathbb{R}$$
 sodass $\lambda_1 \begin{pmatrix} -2 \\ 1 \end{pmatrix} + \lambda_2 \begin{pmatrix} -3 \\ -1 \end{pmatrix} = 0$

$$= > (-2\lambda_1 + 3\lambda_2)$$

$$|\lambda_1 + 0| = 0 = > \lambda_1 = 0$$

$$|0 - \lambda_2|$$

$$Ax = 0 \iff A \begin{pmatrix} x_1 \\ x_2 \\ x_3 \end{pmatrix} = 0 \iff 2x_3 + x_4 = 0, x_3 = 0 \iff x_3 = 0 \iff x_4 = 0$$

$$=> 2x_1 + x_2 = 0 = > x_2 = -2x_1$$

=>
$$\chi$$
es $A = \{x \in \mathbb{R}^4 \mid x = \lambda \begin{pmatrix} \frac{1}{2} \\ \frac{3}{2} \end{pmatrix}, x \in \mathbb{R}^3 \}$

$$L=)$$
 Ker $A=\{\rangle\begin{pmatrix}2\\2\\3\end{pmatrix},\lambda\in\mathbb{R}\}=LH\begin{pmatrix}2\\3\end{pmatrix}$

