Which are subspaces of

R<sup>3</sup> = 
$$\begin{cases} b_1 \\ b_2 \end{cases}$$

b3

no subspace X

$$\begin{pmatrix}
b_1 \\
b_2
\end{pmatrix} = \begin{pmatrix}
0 \\
0
\end{pmatrix} + C_1 \begin{pmatrix}
1 \\
0 \\
-1
\end{pmatrix} + C_2 \begin{pmatrix}
0 \\
1
\end{pmatrix}$$

Guer automation

$$\begin{pmatrix} 1 \\ 0 \end{pmatrix} = \frac{1}{2} \begin{pmatrix} -1 \\ 0 \end{pmatrix} + \frac{1}{2} \begin{pmatrix} 1 \\ 2 \end{pmatrix}$$

 $\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \\ \\ \\ \\ \\ \end{array} \end{array} \end{array} \begin{array}{c} \begin{array}{c} \\ \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \\ \end{array} \end{array} \begin{array}{c} \\ \\ \end{array}$ 

$$\begin{array}{c} \Rightarrow 0 \\ b_2 \\ b_2 \end{array} = \begin{pmatrix} c_1 + 1/2 \\ -1 \end{pmatrix} \begin{pmatrix} 1 \\ 0 \\ -1 \end{pmatrix} + \begin{pmatrix} c_1 + 1/2 \\ 0 \\ 1 \end{pmatrix}$$

$$\begin{pmatrix} b_1 \\ b_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix} + \begin{pmatrix} 1 \\ 0 \\ 1 \end{pmatrix} + \begin{pmatrix} 2 \\ 0 \\ 1 \end{pmatrix}$$

$$C_{1}\begin{pmatrix} 1\\ 0\\ -1\end{pmatrix} + C_{2}\begin{pmatrix} 1\\ 0\\ 1\end{pmatrix} + \begin{pmatrix} 0\\ 0\\ 0\\ 0\end{pmatrix} = \begin{pmatrix} 0\\ 0\\ 0\\ 0\end{pmatrix}$$

Alway have a Linke seems entry