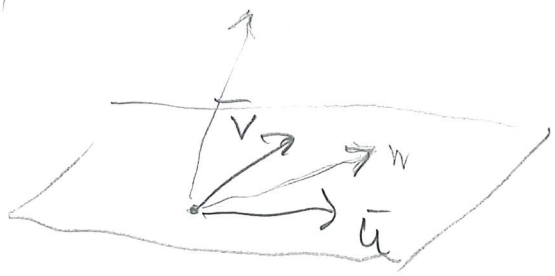
2.3.9 Ligger

$$\bar{u} = \underline{e}\begin{pmatrix}1\\-2\\1\end{pmatrix},\ \bar{v} = \underline{e}\begin{pmatrix}2\\-1\\-1\end{pmatrix},\ \bar{w} = \underline{e}\begin{pmatrix}-1\\-4\\5\end{pmatrix}$$

i samma plan?



$$x_1\bar{u} + x_2\bar{v} = \bar{w}$$

$$x_1\begin{pmatrix}1\\-2\\1\end{pmatrix} + x_2\begin{pmatrix}2\\-1\\-1\end{pmatrix} = \begin{pmatrix}-1\\-4\\5\end{pmatrix}$$

$$\begin{matrix}\\(-1)(2)\end{matrix}\begin{cases} x_1 + 2x_2 = -1 \\ -2x_1 - x_2 = -4 \\ x_1 - x_2 = 5 \end{cases} \Leftrightarrow \begin{cases} x_1 + 2x_2 = -1 \\ 3x_2 = -6 \\ -3x_2 = 6 \end{cases}$$

$$\Leftrightarrow \begin{cases} x_1 = 3 \\ x_2 = -2 \end{cases}$$

$$3\bar{u} + (-2)\bar{v} = \bar{w}$$

$$3\begin{pmatrix}1\\-2\\1\end{pmatrix} - 2\begin{pmatrix}2\\-1\\-1\end{pmatrix} = \begin{pmatrix}-1\\-4\\5\end{pmatrix}$$

Svar Ja