$$U = \left\langle \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix}, \begin{pmatrix} 2 \\ 1 \\ -1 \end{pmatrix} \right\rangle \qquad w = \left\langle \begin{pmatrix} 0 \\ 1 \\ 0 \\ 0 \end{pmatrix} \right\rangle$$

$$\begin{pmatrix}
1 & 0 & 0 \\
-1 & 1 & 1 \\
1 & -1 & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 \\
-1 & 1 & 1 \\
1 & -1 & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 \\
0 & 1 & 1 \\
0 & -(0)
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 \\
0 & 1 & 1 \\
0 & -(0)
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 1 & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 \\
0 & 1 & 0 \\
0 & 0 & 1
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 & | & 1 \\
-2 & 1 & 1 & | & 1
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 & | & 1 \\
0 & 1 & | & 3 \\
0 & -1 & 0 & | & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 & | & 1 \\
0 & 1 & | & 3 \\
0 & -1 & 0 & | & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 & | & 1 \\
0 & 1 & 0 & | & 3 \\
0 & -1 & 0 & | & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 & | & 1 \\
0 & 1 & 0 & | & 3 \\
0 & -1 & 0 & | & 0
\end{pmatrix}$$

$$\begin{pmatrix}
1 & 0 & 0 & | & 1 \\
0 & 1 & 0 & | & 3 \\
0 & -1 & 0 & | & 0
\end{pmatrix}$$

$$\geq$$
) Npoemyach V na U bgolo W pable  $U_1 = \begin{pmatrix} 1 \\ -2 \\ 1 \end{pmatrix}$ 

$$P_{2} = \sum_{i=1}^{N} \frac{1}{2} \left\{ \begin{array}{c} P_{2} = \sum_{i=1}^{N} \frac{1}{2} \left\{ P_{2} = \sum_{i=1}^{N} \frac{1}{2} \left$$

Matphyol enn. of Dop: 
$$E_{12}-E_{11}$$
 0 3 0  $E_{13}-E_{31}$  1 1 0  $E_{23}-E_{31}$  0 3 1