Orthogonal Projections

Find the general orthogonal projection of $\mathbf{v}$ onto W, where $\mathbf{v} = \begin{pmatrix} a \\ b \\ c \end{pmatrix}$ and

$W = \text{span}\left\{ \begin{pmatrix} 1 \\ 1 \\ 1 \end{pmatrix}, \begin{pmatrix} 0 \\ 1 \\ 1 \end{pmatrix} \right\}$. What are the projections when $\mathbf{v} = \begin{pmatrix} 1 \\ 0 \\ 0 \end{pmatrix}$ and when $\mathbf{v} = \begin{pmatrix} 0 \\ 1 \\ 0 \end{pmatrix}$?

✓ **Completed**

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