

EXAMPLE 4 Let $\mathbf{v}_1 = \begin{bmatrix} -1 \\ 1 \end{bmatrix}$ and $\mathbf{v}_2 = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$. Estimate the linear combinations of \mathbf{v}_1 and \mathbf{v}_2 that generate \mathbf{u} and \mathbf{w} .

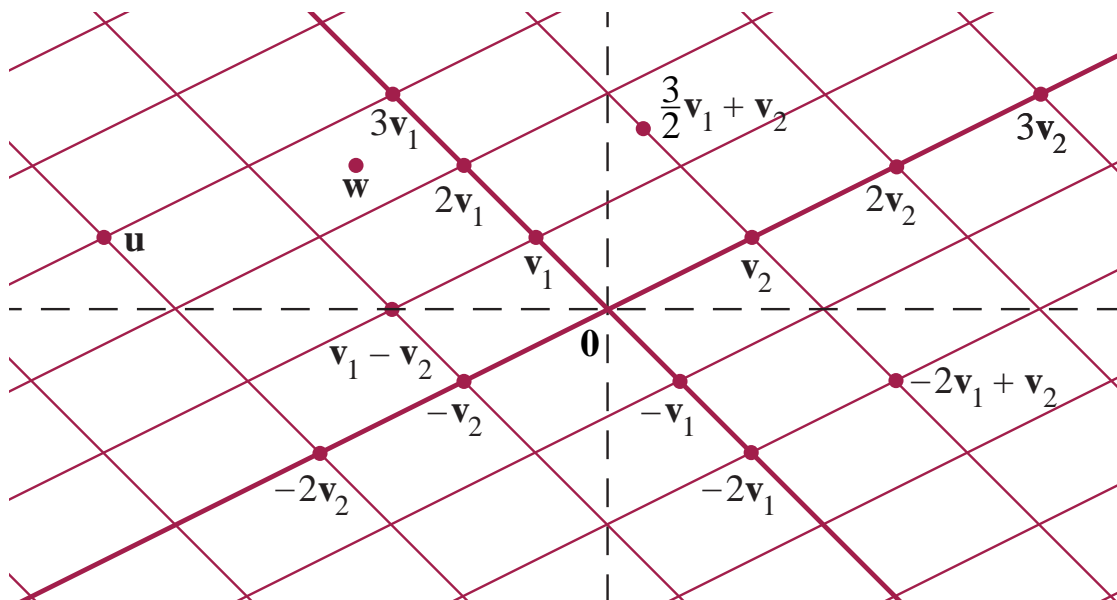


FIGURE 8 Linear combinations of \mathbf{v}_1 and \mathbf{v}_2 .

