Let

$$\vec{x} = \begin{bmatrix} 1 \\ 3 \\ 0 \end{bmatrix} \quad \text{and} \quad y = \begin{bmatrix} 2 \\ -3 \\ 1 \end{bmatrix}.$$

Find the vectors $\vec{v} = 7\vec{x}$, $\vec{u} = \vec{x} + \vec{y}$, and $\vec{w} = 7\vec{x} + \vec{y}$.

$\vec{v} =$ $\begin{bmatrix} \square \\ \square \\ \square \end{bmatrix}$

$\vec{u} =$ $\begin{bmatrix} \square \\ \square \\ \square \end{bmatrix}$

$\vec{w} =$ $\begin{bmatrix} \square \\ \square \\ \square \end{bmatrix}$

Let

$$\vec{x} = \begin{bmatrix} 1 \\ 3 \\ 0 \end{bmatrix} \quad \text{and} \quad y = \begin{bmatrix} 2 \\ -3 \\ 1 \end{bmatrix}.$$

Find the vectors $\vec{v} = 7\vec{x}$, $\vec{u} = \vec{x} + \vec{y}$, and $\vec{w} = 7\vec{x} + \vec{y}$.

$$\vec{v} = \begin{bmatrix} 7 \\ 21 \\ 0 \end{bmatrix}$$

$$\vec{u} = \begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix}$$

$$\vec{w} = \begin{bmatrix} 9 \\ 18 \\ 1 \end{bmatrix}$$