Let $\overrightarrow{\mathbf{v}}=(1,5), \overrightarrow{\mathbf{w}}=(2,3)$, and $\overrightarrow{\mathbf{u}}=(1,3,-2)$.

1. Find the projection of $\overrightarrow{\mathbf{v}}$ onto $\overrightarrow{\mathbf{w}}$
2. Find the projection of $\overrightarrow{\mathbf{w}}$ onto $\overrightarrow{\mathbf{v}}$
3. Find two vectors perpendicular to $\overrightarrow{\mathbf{v}}$.
4. Find three vectors perpendicular to $\overrightarrow{\mathbf{u}}$.
