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

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

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