MA 122: Reading Assignment 8

Read Sections 13.3 and 13.4. Do the following:

(1) Let $\mathbf{u} = (3/\sqrt{5}, 4/\sqrt{5})$ and $\mathbf{v} = (4, 1)$. Find the component of $\mathbf{v}$ parallel to $\mathbf{u}$ and find the component of $\mathbf{v}$ perpindicular to $\mathbf{u}$.

(2) Let $\mathbf{v} = (2, 1, 3)$ and let $\mathbf{w} = (-1, 4, 1)$. Compute $\mathbf{v} \times \mathbf{w}$. (Use the algebraic definition of $\times$.)