Group_____ Scribe_____

Other group members_____

Group Quiz for Section 3.7

Let $T \in \mathcal{L}(V)$ and let $\mathcal{B} = (v_1, \ldots, v_n)$ be a basis for V. Show that $[T]_{\mathcal{B}}$ is upper triangular if and only if

$$T v_j \in \langle v_1, \ldots, v_j \rangle$$

for each $j = 1, \ldots, n$.