Group_____Scribe_____

Other group members_____

Group Quiz for Section 4.1

Suppose that $T : V \to W$ is a linear map of a vector space V into an inner product space W, and suppose that T is *not* injective. Show that

$$\langle v_1, v_2 \rangle := \langle Tv_1, Tv_2 \rangle$$

does not define an inner product on V.