

Group \_\_\_\_\_ Scribe \_\_\_\_\_

Other group members \_\_\_\_\_

### Group Quiz for Section 4.3

Recall that if  $U$  is a subspace of a finite-dimensional inner product space  $V$ , then

$$U^\perp := \{v \in V : \langle u, v \rangle = 0 \forall u \in U\}.$$

Show that if  $U_1 \subseteq U_2$ , then  $U_2^\perp \subseteq U_1^\perp$ .