# MATH 101: GRADUATE LINEAR ALGEBRA DAILY HOMEWORK \#5 

Problem 5.1. Let $V$ be a finite-dimensional vector space over $F$, and let ev: $V \xrightarrow{\sim} V^{* *}$ be the evaluation isomorphism. Let $W \subseteq V$ be a subspace. Show that ann $(\operatorname{ann}(W))=$ $\operatorname{ev}(W) \subseteq V^{* *}$.

