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 $\operatorname{ann}(\operatorname{ann}(W)) = \operatorname{ev}(W) \subseteq V^{**}$.

Date: Assigned Monday, 18 September 2017; due Wednesday, 20 September 2017.