MATH 101: GRADUATE LINEAR ALGEBRA DAILY HOMEWORK #4

Problem 3.1. Let V, W be finite-dimensional vector spaces over F. Let $ev_V : V \xrightarrow{\sim} V^{**}$ be the evaluation isomorphism on V and similarly ev_W on W. Let $\phi : V \to W$ be F-linear, and let $\phi^{**} = (\phi^*)^*$. Show that the following diagram commutes:



Date: Assigned Friday, 15 September 2017; due Monday, 18 September 2017.