

SUBSPACE CODIMENSIONS

Definition

Suppose W is a subspace of a vector space V. The *codimension* of W in V is the difference of the dimension of V and the dimension of W. In this context, V is called the *ambient space* of W.

Notation

As usual, let $\dim W$ and $\dim V$ denote the dimensions of W and V, respectively We denote the codomension of W in V by $\operatorname{codim}(W)$

