



Definition

The *dual vector space* (or *dual space*, *algebraic dual space*) of a vector space V over a field \mathbf{F} is the space $\mathcal{L}(V, \mathbf{F})$. In other words, the dual space is the set of linear functionals on V .

Notation

There are many notations in use. We will use V' . Another common notation is V^* (however we reserve this notation for adjoints, to come).

