



## Definition

An *operator* is a *linear* transformation where the codomain is the domain. An operator is just a linear transformation with a particular domain and codomain, just as a transformation is just a function on and to vector spaces.

## Notation

Suppose  $V$  is a vector space. We usually abbreviate the notation for the set of operators to  $\mathcal{L}(V)$  from  $\mathcal{L}(V, V)$ .



