## Source:

1 | sum (
$$S + T$$
)

If  $S,T\in\mathcal{L}(V,W)$  then the sum S+T is defined by

$$(S+T)(v) = Sv + Tv$$

(S+T) is a linear map.

## $2 \mid$ scalar product $\lambda T$

If  $T \in \mathcal{L}(V, W)$  and  $\lambda \in \mathbb{F}$  then the *product*  $(\lambda T)v = \lambda Tv$ .  $\lambda T$  is a linear map.

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