## Source:

## 1 | Definition

#definition Axler3.2 Linear Map #aka linear transformation A linear map from V to W is a function  $T:V\to W$  with the following properties:

## 1.1 | Additivity

$$T(u+v) = Tu + Tv \forall u, v \in V$$

## 1.2 | Homogenity

$$T(\lambda v) = \lambda(Tv) \forall \lambda \in \mathbb{F}, v \in V$$

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