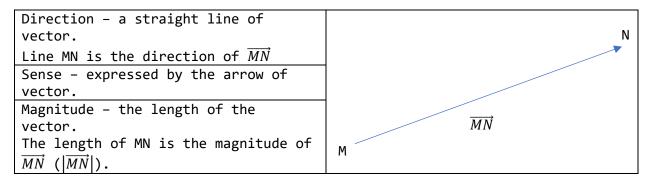
VECTOR BASICS

Definition

Vector

A VECTOR is a quantity which constitutes a set of points and consists of



Self-learning: Addition, subtraction, and angle of vectors

Scalar multiplication

$$\vec{B} = k \cdot \vec{A}$$

When a \vec{A} is multiplied by a scalar k, the result is \vec{B} which has the same direction and sense to \vec{A} and k time(s) id magnitude.

Scalar production

$$\vec{A} \cdot \vec{B} = \vec{B} \cdot \vec{A} = |\vec{A}| \cdot |\vec{B}| \cdot \cos(\alpha)$$

With lpha is the angle between \vec{A} and \vec{B}