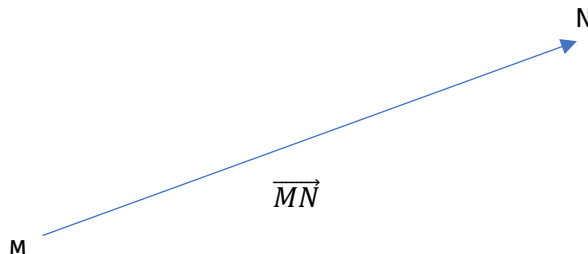


VECTOR BASICS

Definition

Vector

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

Direction - a straight line of vector. Line MN is the direction of \overrightarrow{MN}	
Sense - expressed by the arrow of vector.	
Magnitude - the length of the vector. The length of MN is the magnitude of \overrightarrow{MN} ($ \overrightarrow{MN} $).	

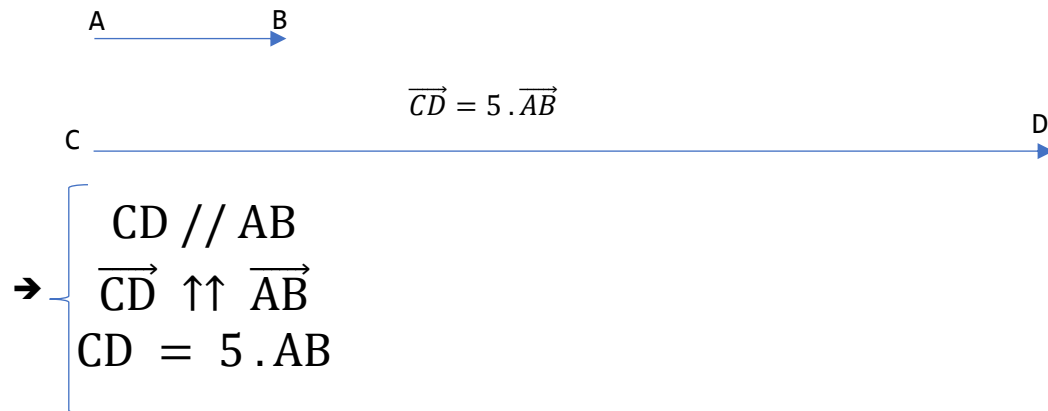
Self-learning: Addition, subtraction, and angle of vectors

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.

Example: $k = 5, \overrightarrow{CD}$ and \overrightarrow{AB}



Scalar production

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

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

--- The End ---
