ADDITION COMPOSITION

Let $\vec{a}, \vec{b}$ be two given vectors. Take a point O.
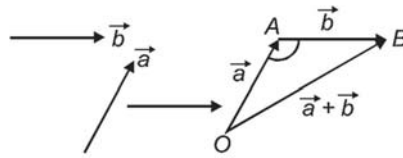
Let $\overrightarrow{OA} = \vec{a}$ and $\overrightarrow{AB} = \vec{b}$.

So that the terminal point of the vector $\vec{a}$ is the initial point of vector $\vec{b}$.

The vector $\overrightarrow{OB}$ is called the 'sum' of vectors $\vec{a}$ and $\vec{b}$ and is written as

$$\overrightarrow{OB} = \overrightarrow{OA} + \overrightarrow{AB} = \vec{a} + \vec{b}$$

We have $\vec{a} + 0 = \vec{a}$, for every vector $\vec{a}$; $\vec{0}$, being the zero vector.