

Physics

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(Chapter 3) (Motion in a Plane) (Exercises)

(Class 11)

$$|\vec{a} - \vec{b}| < |\vec{a}| + |-\vec{b}|$$

$$|\vec{a} - \vec{b}| < |\vec{a}| + |\vec{b}| \quad \dots(\text{iii})$$

If the two vectors act in a straight line but in opposite directions, then we can write:

$$|\vec{a} - \vec{b}| = |\vec{a}| + |\vec{b}| \quad \dots(\text{iv})$$

Combining equations (iii) and (iv), we get:

$$|\vec{a} - \vec{b}| \leq |\vec{a}| + |\vec{b}|$$

(d) Let two vectors $\vec{a}$ and $\vec{b}$ be represented by the adjacent sides of a parallelogram PQRS, as shown in the given figure.

The following relations can be written for the given parallelogram.

$$OS + PS > OP \quad \dots(\text{i})$$

$$OS > PS - OP \quad \dots(\text{ii})$$

$$|\vec{a} - \vec{b}| > |\vec{a}| - |\vec{b}| \quad \dots(\text{iii})$$

The quantity on the LHS is always positive and that on the RHS can be positive or negative. To make both quantities positive, we take modulus on both sides as:

$$|\vec{a} - \vec{b}| > ||\vec{a}| - |\vec{b}||$$

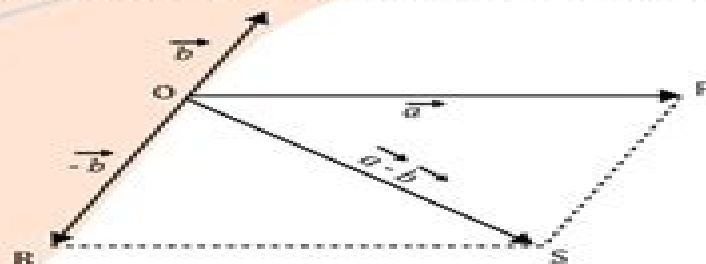
$$|\vec{a} - \vec{b}| > ||\vec{a}| - |\vec{b}|| \quad \dots(\text{iv})$$

If the two vectors act in a straight line but in the opposite directions, then we can write:

$$|\vec{a} - \vec{b}| = ||\vec{a}| - |\vec{b}|| \quad \dots(\text{v})$$

Combining equations (iv) and (v), we get:

$$|\vec{a} - \vec{b}| \geq ||\vec{a}| - |\vec{b}||$$



Question 3.7:

Given $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$, which of the following statements are correct:

(a) $\vec{a}$, $\vec{b}$, $\vec{c}$, and $\vec{d}$ must each be a null vector,

(b) The magnitude of $(\vec{a} + \vec{c})$ equals the magnitude of $(\vec{b} + \vec{d})$.

(c) The magnitude of $\vec{a}$ can never be greater than the sum of the magnitudes of $\vec{b}$, $\vec{c}$, and $\vec{d}$.

(d) $\vec{b} + \vec{c}$ must lie in the plane of $\vec{a}$ and $\vec{d}$, if $\vec{a}$ and $\vec{d}$ are not collinear, and in the line of $\vec{a}$ and $\vec{d}$, if they are collinear?

Answer 3.7:

(a) Incorrect

In order to make $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$, it is not necessary to have all the four given vectors to be null vectors. There are many other combinations which can give the sum zero.

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Zitzewitz



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