

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:

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

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

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:

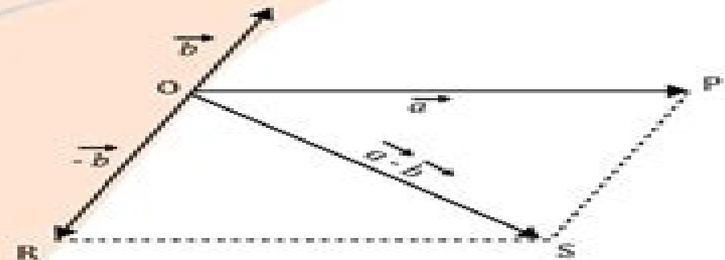
Given $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$, which of the following statements are correct:

- (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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