

Combining and Scaling Vectors

Adding vectors (triangle rule)

If two vectors are added to:
 $\vec{a} = (a_1, a_2)$ and $\vec{b} = (b_1, b_2)$ then:
 $\vec{a} + \vec{b} = (a_1 + b_1, a_2 + b_2)$

You add vectors together by combining the "x" components and the "y" components.
 The vector sum is often called the resultant.

Remember: When adding vectors, write:

$$\vec{a} = (3, 4) \text{ and } \vec{b} = (2, 1) \Rightarrow \vec{a} + \vec{b} = (3+2, 4+1) = (5, 5)$$

$$\vec{c} = (2, 3) \text{ and } \vec{d} = (-1, 2) \Rightarrow \vec{c} + \vec{d} = (2-1, 3+2) = (1, 5)$$

$$\vec{e} = (-4, 5) \text{ and } \vec{f} = (6, 7) \Rightarrow \vec{e} + \vec{f} = (-4+6, 5+7) = (2, 12)$$

$$\vec{a} = (3, 4) \text{ and } \vec{b} = (-1, 2) \Rightarrow \vec{a} + \vec{b} = (3-1, 4+2) = (2, 6)$$

$$\vec{g} = (2, 3) \text{ and } \vec{h} = (-1, 2) \Rightarrow \vec{g} + \vec{h} = (2-1, 3+2) = (1, 5)$$

$$\vec{i} = (-4, 5) \text{ and } \vec{j} = (6, 7) \Rightarrow \vec{i} + \vec{j} = (-4+6, 5+7) = (2, 12)$$

Adding vectors (parallelogram rule)

Find the resultant

Could you get someone to draw vectors for you to illustrate this? (use the fact that the resultant is the diagonal of the parallelogram)



The resultant (or vector sum) indicates that the addition of these vectors (a) to the original vector (b) gives the resultant (or vector sum).

(Hence, the resultant is shown above.)

Parallelogram method

Remember: Vectors to same start position or standard position, add component to component in parallelogram.



The resultant (or vector sum) indicates that the addition of these vectors (a) to the original vector (b) gives the resultant (or vector sum).

(Hence, the resultant is shown above.)

In mathematics, the length (modulus) of \vec{a} is $|\vec{a}|$ and of \vec{b} is $|\vec{b}|$. Addition gives us $\vec{a} + \vec{b}$ or $|\vec{a}| + |\vec{b}|$ or $|\vec{a} + \vec{b}|$.

Also the equivalent subtraction (a) is $\vec{a} - \vec{b}$ or $|\vec{a}| - |\vec{b}|$ or $|\vec{a} - \vec{b}|$.

(7) Find the sum $\vec{a} = (3, 4)$ and $\vec{b} = (2, 1)$



Resultant $\vec{a} + \vec{b} = (5, 5)$

(8) Parallelogram $\vec{a} = (3, 4)$ and $\vec{b} = (2, 1)$



Resultant $\vec{a} + \vec{b} = (5, 5)$

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