

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.

Example: Adding two vectors:

$$\begin{aligned} \vec{a} &= (3, 5) \text{ and } \vec{b} = (2, 4) \Rightarrow \vec{a} + \vec{b} = (3+2, 5+4) = (5, 9) \\ \vec{c} &= (2, 5) \text{ and } \vec{d} = (-3, 2) \Rightarrow \vec{c} + \vec{d} = (2-3, 5+2) = (-1, 7) \\ \vec{e} &= (-4, 3) \text{ and } \vec{f} = (5, 7) \Rightarrow \vec{e} + \vec{f} = (-4+5, 3+7) = (1, 10) \end{aligned}$$

$$\begin{aligned} \vec{g} &= (3, 5) \text{ and } \vec{h} = (-2, 2) \Rightarrow \vec{g} + \vec{h} = (3-2, 5+2) = (1, 7) \\ \vec{i} &= (2, 5) \text{ and } \vec{j} = (3, -6) \Rightarrow \vec{i} + \vec{j} = (2+3, 5-6) = (5, -1) \\ \vec{k} &= (-4, 3) \text{ and } \vec{l} = (7, 2) \Rightarrow \vec{k} + \vec{l} = (-4+7, 3+2) = (3, 5) \end{aligned}$$

Adding vectors (parallelogram rule)

Find the resultant

Consider the vectors $\vec{a}$ and $\vec{b}$ in the diagram. Add them to find the resultant $\vec{c}$.



The resultant $\vec{c}$ is the vector found starting from the tail of $\vec{a}$ to the tip of $\vec{b}$ (or the tip of $\vec{a}$ to the tip of $\vec{b}$).

Given, the resultant is shown above.

Parallelogram rule

Consider the vectors $\vec{a}$ and $\vec{b}$ in the diagram. Add them to find the resultant $\vec{c}$.



The resultant $\vec{c}$ is the vector found starting from the tail of $\vec{a}$ to the tip of $\vec{b}$ (or the tip of $\vec{a}$ to the tip of $\vec{b}$).

Given, the resultant is shown above.

In addition, the length of $\vec{a}$ is 3 and $\vec{b}$ is 4. The resultant $\vec{c}$ is 5.

Also, the angle between $\vec{a}$ and $\vec{b}$ is 90 degrees.

(a) Find the resultant $\vec{c}$ if $\vec{a} = (3, 4)$ and $\vec{b} = (4, 3)$.



Resultant $\vec{c} = (7, 7)$

(b) Parallelogram rule if $\vec{a} = (3, 4)$ and $\vec{b} = (4, 3)$.



Resultant $\vec{c} = (7, 7)$

Resultant $\vec{c} = (7, 7)$

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Tao Wei



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