

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:

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

$$\begin{aligned} \vec{g} &= (3, 5) \text{ and } \vec{h} = (-2, 2) \Rightarrow \vec{g} + \vec{h} = (3-2, 5+2) = (1, 7) \\ \vec{i} &= (2, 5) \text{ and } \vec{j} = (3, -5) \Rightarrow \vec{i} + \vec{j} = (2+3, 5-5) = (5, 0) \\ \vec{k} &= (-4, 3) \text{ and } \vec{l} = (5, 7) \Rightarrow \vec{k} + \vec{l} = (-4+5, 3+7) = (1, 10) \end{aligned}$$

Adding vectors (parallelogram rule)

Find the resultant

Consider the vectors \vec{a} and \vec{b} in the diagram. To find the resultant \vec{c} using the triangle rule, you add the tail of \vec{b} to the tip of \vec{a} .



The resultant \vec{c} is the vector from the tail of \vec{a} to the tip of \vec{b} as they are drawn adjacent to each other.

Alternatively, the resultant is shown below:

Find the resultant

Consider the vectors \vec{a} and \vec{b} in the diagram. To find the resultant \vec{c} using the parallelogram rule, add the vectors to a point as shown below.



The resultant \vec{c} is the vector from the tail of \vec{a} to the tip of \vec{b} as they are drawn adjacent to each other.

Alternatively, the resultant is shown below:

In addition, the length of \vec{a} is 3 and \vec{b} is 5. The resultant \vec{c} is $\sqrt{3^2 + 4^2} = 5$.

Also, the angle of \vec{a} is 0° and \vec{b} is 53.1° . The resultant \vec{c} is 36.9° .

(a) Find the resultant $\vec{a} + \vec{b}$ and $\vec{b} + \vec{a}$.



Resultant $\vec{c} = (5, 4)$

(b) Find the resultant $\vec{a} + \vec{b}$ and $\vec{b} + \vec{a}$.



Resultant $\vec{c} = (5, 4)$

Resultant $\vec{c} = (5, 4)$

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