

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:
 $\vec{a} + \vec{b} = (a_1 + b_1, a_2 + b_2)$

Remember: When adding vectors, write:

$$\vec{a} = (10, 50) + (20, 40) = (30, 90)$$

$$\vec{b} = (20, 50) + (-10, 30) = (10, 80)$$

$$\vec{c} = (-10, 50) + (20, 10) = (10, 60)$$

You add vectors together by combining the "x" components and the "y" components.

The vector addition often looks like this:

$$\vec{a} = (10, 50) + (-10, 30) = (0, 80)$$

$$\vec{b} = (20, 50) + (-10, 30) = (10, 80)$$

$$\vec{c} = (-10, 50) + (20, 10) = (10, 60)$$

Adding vectors (parallelogram rule)

Let us try a different

method for combining vectors. Let's use the graphical method. Let's try to find the resultant of two vectors $\vec{a}$ and $\vec{b}$.



The resultant of two vectors found graphically shows that the resultant of two vectors $\vec{a}$ and $\vec{b}$ is the vector $\vec{c}$ that connects the tail of $\vec{a}$ to the tip of $\vec{b}$.

Graphically, the resultant is shown above.

Remember: When adding

vectors graphically, let the tail of one vector be standard position, and the tip of the other be the tip of the resultant.



The resultant of two vectors found graphically shows that the resultant of two vectors $\vec{a}$ and $\vec{b}$ is the vector $\vec{c}$ that connects the tail of $\vec{a}$ to the tip of $\vec{b}$.

Graphically, the resultant is shown above.

In mathematics, the length of a vector $\vec{a}$ is $|\vec{a}|$ and the length of a vector $\vec{b}$ is $|\vec{b}|$. The length of a vector $\vec{c}$ is $|\vec{c}|$.

Let's try to find the resultant of two vectors $\vec{a}$ and $\vec{b}$ using the graphical method.

(a) Let us try to find the resultant of two vectors $\vec{a}$ and $\vec{b}$.



Length of $\vec{a}$ is 50

Length of $\vec{b}$ is 30

(b) Let us try to find the resultant of two vectors $\vec{a}$ and $\vec{b}$.



Length of $\vec{a}$ is 50

Length of $\vec{b}$ is 30

Length of $\vec{c}$ is 80

Hs Mathematics Unit 06 Lesson 01

Mike Jess



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