

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.

Two vector systems often output the results:

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

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

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

Adding vectors (component rule)

Find the resultant

Could they be combined? Vector addition can be done by placing two vectors "tail-to-tip" (see with the tail of one vector tip of the other).



The resultant (or vector sum) indicates that the combination of two vectors (a) to their tip of the second vector (b).

(Given: the resultant is shown above.)

Parallelogram method

Another technique to combine two vectors is standard position, add components to output as parallelogram.



The resultant (or vector sum) indicates that the combination of two vectors (a) to their tip of the second vector (b).

(Given: the resultant is shown above.)

In mathematics, the length (magnitude) of a vector is $\sqrt{a^2 + b^2}$ and the direction (angle) is $\tan^{-1}(b/a)$.

Also, the magnitude of a vector is the same as the length of the vector.

(a) Find the resultant of $\vec{a} = (10, 50)$ and $\vec{b} = (20, 40)$.



Resultant: $\vec{c} = (30, 90)$

(b) Parallelogram method: $\vec{a} = (10, 50)$ and $\vec{b} = (20, 40)$.



Resultant: $\vec{c} = (30, 90)$

Resultant: $\vec{c} = (30, 90)$

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