

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 addition often looks like this:

Remember: When adding vectors, write:

$$\vec{a} = (3, 5) \text{ and } \vec{b} = (2, 4) \Rightarrow \vec{a} + \vec{b} = (3+2, 5+4) = (5, 9)$$

$$\vec{c} = (2, 5) \text{ and } \vec{d} = (-3, 2) \Rightarrow \vec{c} + \vec{d} = (2-3, 5+2) = (-1, 7)$$

$$\vec{e} = (-4, 3) \text{ and } \vec{f} = (6, 7) \Rightarrow \vec{e} + \vec{f} = (-4+6, 3+7) = (2, 10)$$

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

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

$$\vec{i} = (-4, 3) \text{ and } \vec{j} = (2, -2) \Rightarrow \vec{i} + \vec{j} = (-4+2, 3-2) = (-2, 1)$$

Adding vectors (component rule)

Find the resultant

Could you get someone to draw vector $\vec{a}$ and $\vec{b}$ on graph paper? Use the tip of $\vec{a}$ as the tail of $\vec{b}$ (or, with the tail of $\vec{b}$ at the tip of $\vec{a}$)



The resultant (or, vector sum) indicates that the addition of two vectors $\vec{a}$ and $\vec{b}$ is the tip of the second vector $\vec{b}$.

Given, the resultant is shown above.

Parallelogram method

Remember: Vectors to common tip indicate the standard position, add together to result in parallelogram.



The resultant (or, vector sum) indicates that together the opposite sides within parallelogram.

Given, the resultant is shown above.

In addition, the larger vector $\vec{a} = (3, 5)$ and $\vec{b} = (2, 4)$ addition gives $\vec{a} + \vec{b} = (3, 5) + (2, 4) = (5, 9)$

also the opposite addition method $\vec{a} + \vec{b}$ addition gives values.

(7) Find the tip $\vec{a} = (3, 5)$ and $\vec{b} = (2, 4)$



Resultant $\vec{a} + \vec{b} = (5, 9)$

(8) Parallelogram $\vec{a} = (3, 5)$ and $\vec{b} = (2, 4)$



Resultant $\vec{a} + \vec{b} = (5, 9)$

Hs Mathematics Unit 06 Lesson 01

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Velavancorresponding



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Hs Mathematics Unit 06 Lesson 01 Book Review: Unveiling the Magic of Language

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