

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:

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

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

$$\vec{e} = (-4, 3) \text{ and } \vec{f} = (5, 7) \Rightarrow \vec{e} + \vec{f} = (-4+5, 3+7) = (1, 10)$$

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

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

$$\vec{i} = (-4, 3) \text{ and } \vec{j} = (5, 7) \Rightarrow \vec{i} + \vec{j} = (-4+5, 3+7) = (1, 10)$$

Adding vectors (component rule)

Find the resultant

Could you get someone to add vectors for you or plot the two vectors? Just say "yes" with the full set of numbers (x and y).



The resultant (or vector sum) always lies the same distance from the origin as the two original vectors (or as the tip of the longest vector (a)).

Always, the resultant is shown dotted.

Parallelogram rule

Remember: Vectors to same tip are parallel. Vectors to same position, add together to equal a parallelogram.



The resultant (or vector sum) always lies the same distance from the origin as the two original vectors (or as the tip of the longest vector (a)).

Always, the resultant is shown dotted.

In addition, the length (modulus) of $\vec{a}$ is $(3, 5)$ and of $\vec{b}$ is $(2, 4)$ and their sum is $\vec{r}$ is $(3, 5) + (2, 4) = (5, 9)$.

Also the equivalent addition (modulus) is $\vec{r}$ is either given values.

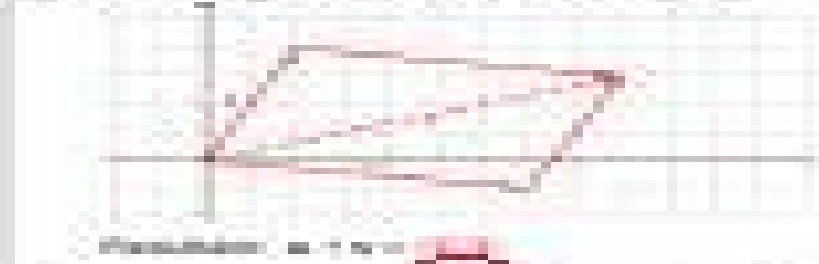
(7) Find the tip $\vec{a} = (3, 5)$ and $\vec{b} = (2, 4)$



Length 10 units

Resultant

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



Length 10 units

Resultant

Length 10 units

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ML Morrison



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