

Combining and Scaling Vectors

Adding vectors a & b (tip-to-tail)

If vector a is added to vector b , the result is $a + b$. Thus:
 $a + b$ is a (start at, go to b).

You add vectors together by combining the "x" components and the "y" components.
 The vector $a + b$ often called the resultant.

Remember: When adding vectors, name:

$$\begin{aligned} \text{Ex: } (10, 50) + (20, 40) &= (30, 90) \\ (20, 50) + (-10, 30) &= (10, 80) \\ (30, 40) + (40, 70) &= (70, 110) \end{aligned}$$

$$\begin{aligned} \text{Ex: } (10, 50) + (-10, 30) &= (0, 80) \\ (20, 50) + (-10, 30) &= (10, 80) \\ (30, 40) + (-10, 30) &= (20, 70) \end{aligned}$$

Adding vectors a & b (component)

Ex: See the resultant

Could they be combined? Vector addition isn't like adding numbers. "Tip-to-tail" (or, with the tail at the origin tip of a).



The resultant (or, vector sum) indicates that the combination of vector a and vector b is the tip of the resultant vector $a+b$.

(Given, the resultant is shown dashed.)

Remember: When adding

vectors, the resultant is shown dashed. Add components to resultant as components.



The resultant (or, vector sum) indicates that the combination of vector a and vector b is the tip of the resultant vector $a+b$.

(Given, the resultant is shown dashed.)

In mathematics, the length (magnitude) of a is $(10, 50)$ and b is $(20, 40)$. Addition gives $a + b$ is $(10, 50) + (20, 40) = (30, 90)$.

Also, the magnitude of the resultant $a + b$ is the tip of the given vectors.

Ex: See the resultant $a + b$ is $(10, 50)$ and b is $(20, 40)$.



Example: 10, 50

(30, 90)

Ex: See the resultant $a + b$ is $(10, 50)$ and b is $(20, 40)$.



Example: 10, 50

(30, 90)

Example: 10, 50

Precalculus Hs Mathematics Unit 06 Lesson 01 Epsilen

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