

## 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 from the addition of two vectors  $\vec{a}$  and  $\vec{b}$  is the tip of the resultant vector  $\vec{c}$ .

Given, the resultant is shown above.

Parallelogram method

Another technique for adding two vectors is the parallelogram method. Let's try to find the resultant of two vectors  $\vec{a}$  and  $\vec{b}$ .



The resultant of two vectors found graphically from the addition of two vectors  $\vec{a}$  and  $\vec{b}$  is the tip of the resultant vector  $\vec{c}$ .

Given, the resultant is shown above.

In addition, the length of vector  $\vec{a}$  is (10, 50) and  $\vec{b}$  is (-10, 30). The resultant  $\vec{c}$  is (0, 80).

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  $\vec{b}$ .



Resultant is (0, 80)

(b) Parallelogram method:  $\vec{a} = (10, 50)$  and  $\vec{b} = (-10, 30)$



Resultant is (0, 80)

Resultant is (0, 80)

# Hs Mathematics Unit 06 Lesson 01

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