

Combining and Scaling Vectors

Adding Vectors & Scalar Multiplication

Two vectors \mathbf{u} and \mathbf{v} are added to form the sum vector $\mathbf{u} + \mathbf{v}$.
 $\mathbf{u} = \langle 2, 3 \rangle$ and $\mathbf{v} = \langle 1, 2 \rangle$ then $\mathbf{u} + \mathbf{v} = \langle 3, 5 \rangle$.

- Geometrically, combining vectors means:
- (a) $\langle 2, 3 \rangle + \langle 1, 2 \rangle = \langle 3, 5 \rangle$
 - (b) $\langle 2, 3 \rangle + \langle -1, 2 \rangle = \langle 1, 5 \rangle$
 - (c) $\langle 2, 3 \rangle + \langle 0, 2 \rangle = \langle 2, 5 \rangle$

We add vectors together by combining their x -components and their y -components.
 The sum vector often called the resultant.

- (d) $\langle 2, 3 \rangle + \langle 1, -2 \rangle = \langle 3, 1 \rangle$
- (e) $\langle 2, 3 \rangle + \langle -2, 2 \rangle = \langle 0, 5 \rangle$
- (f) $\langle 2, 3 \rangle + \langle -2, 0 \rangle = \langle 0, 3 \rangle$

Adding Vectors & Scalar Multiplication

Scaling the Resultant
 Consider the resultant vector $\mathbf{u} + \mathbf{v}$ as shown. Scale the resultant by a scalar k (in this case $k = 2$).



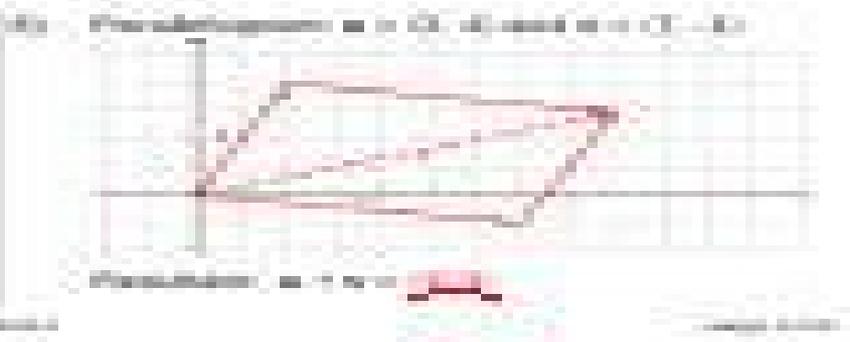
In addition, scaling results in a $\langle 6, 10 \rangle$ and a $\langle 3, 5 \rangle$ vector sum as $k = 2$ or $\langle 3, 5 \rangle + \langle 3, 5 \rangle = \langle 6, 10 \rangle$.
 Note the segment and the resultant as k is either the given values.



Resultant of Vectors
 Another technique to obtain the resultant of several vectors, add sequentially in order as demonstrated.



(d) Parallelogram as $k = \langle 2, 4 \rangle$ and $k = \langle 2, -4 \rangle$.



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