



Escuela Naval Arturo Prat

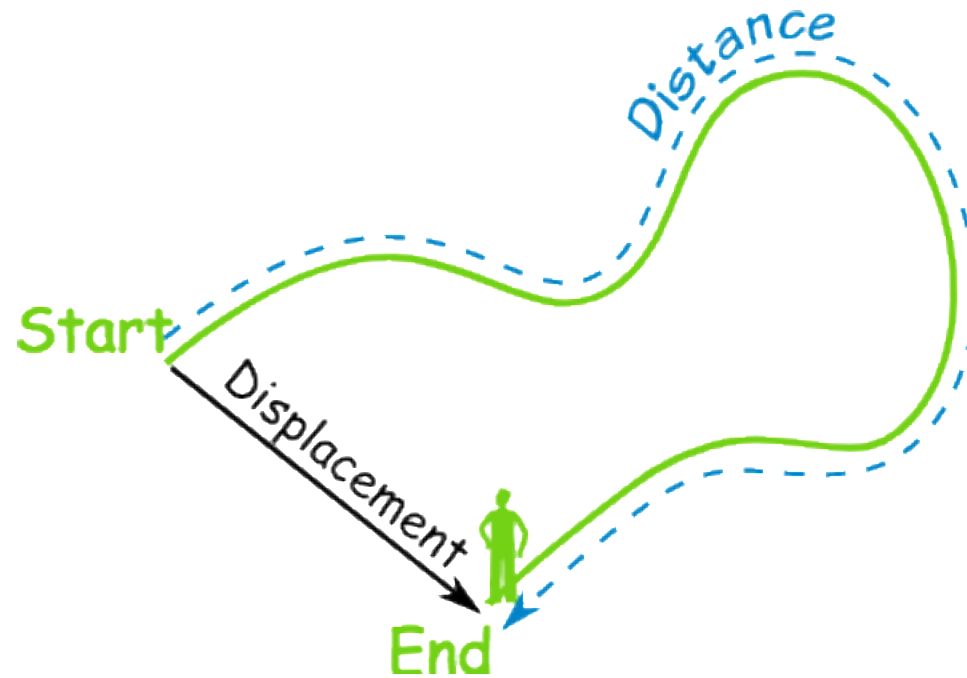
Física 2do Semestre 2018

¿Cuál es la diferencia entre distancia y desplazamiento?

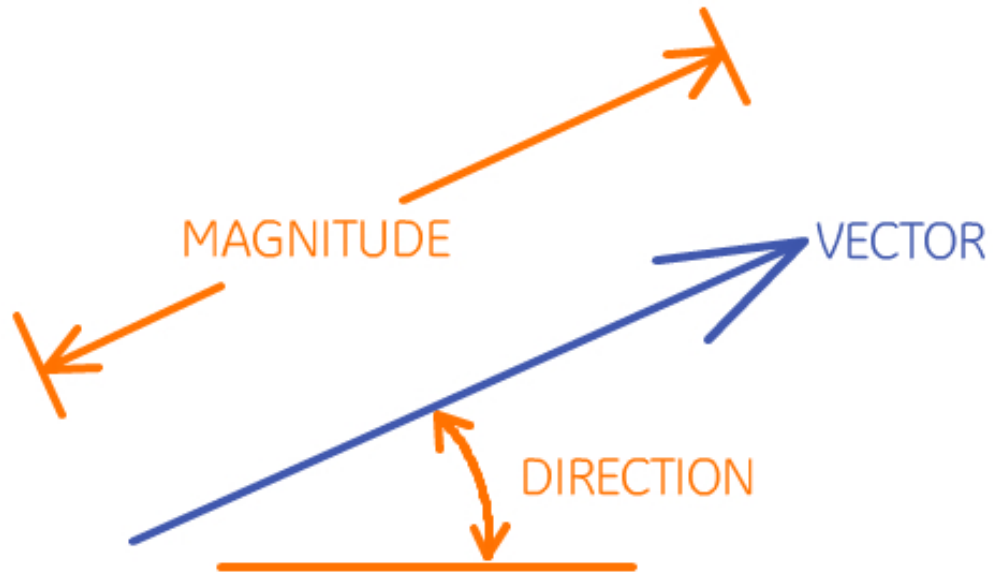
Magnitudes físicas

Escalares

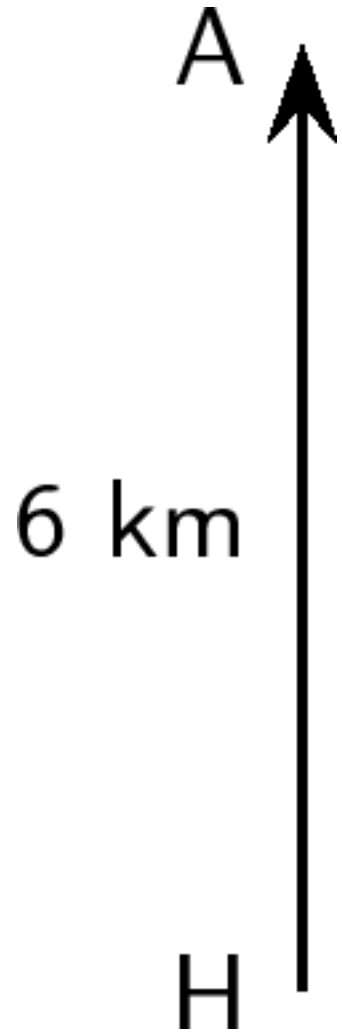
Vectoriales

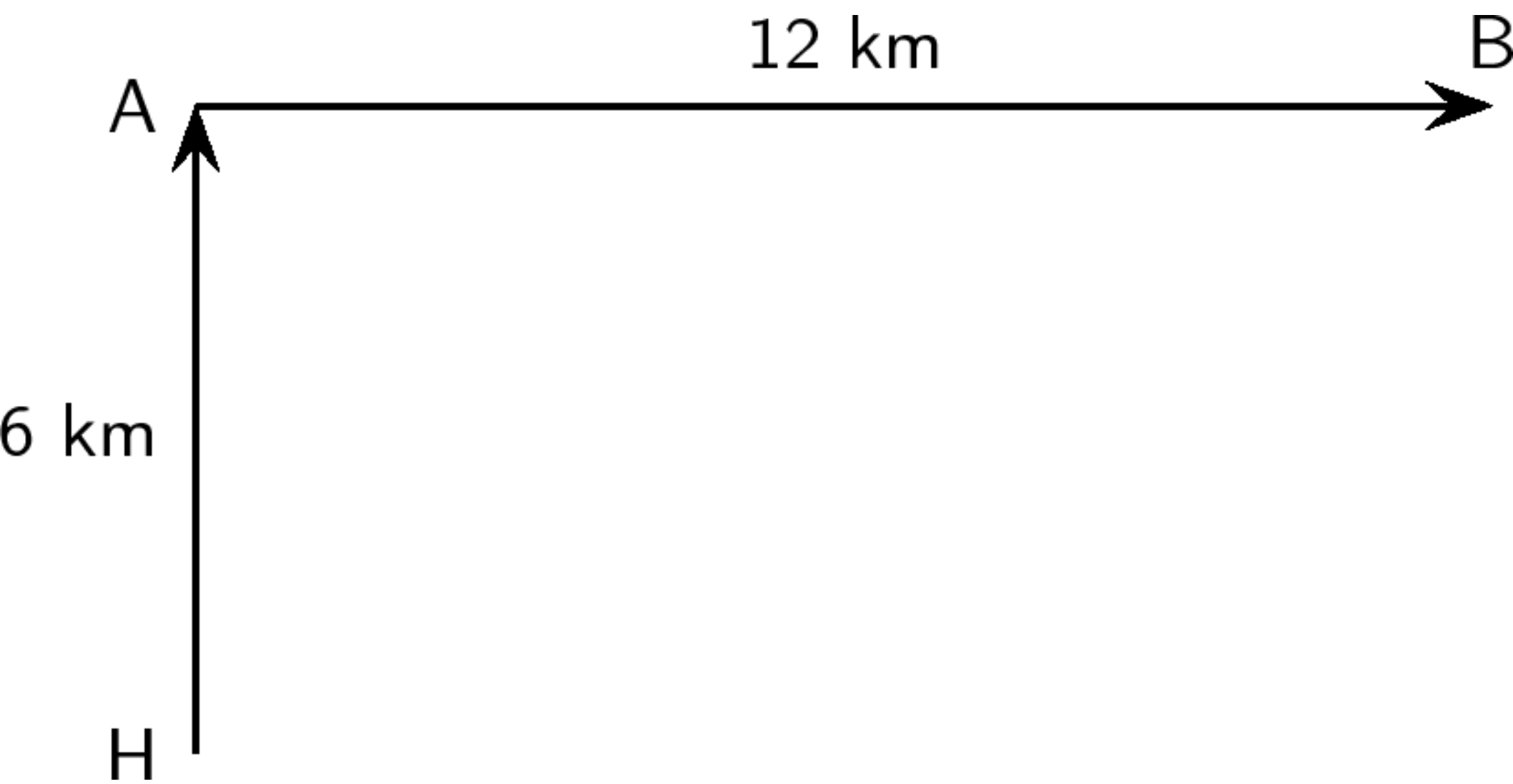


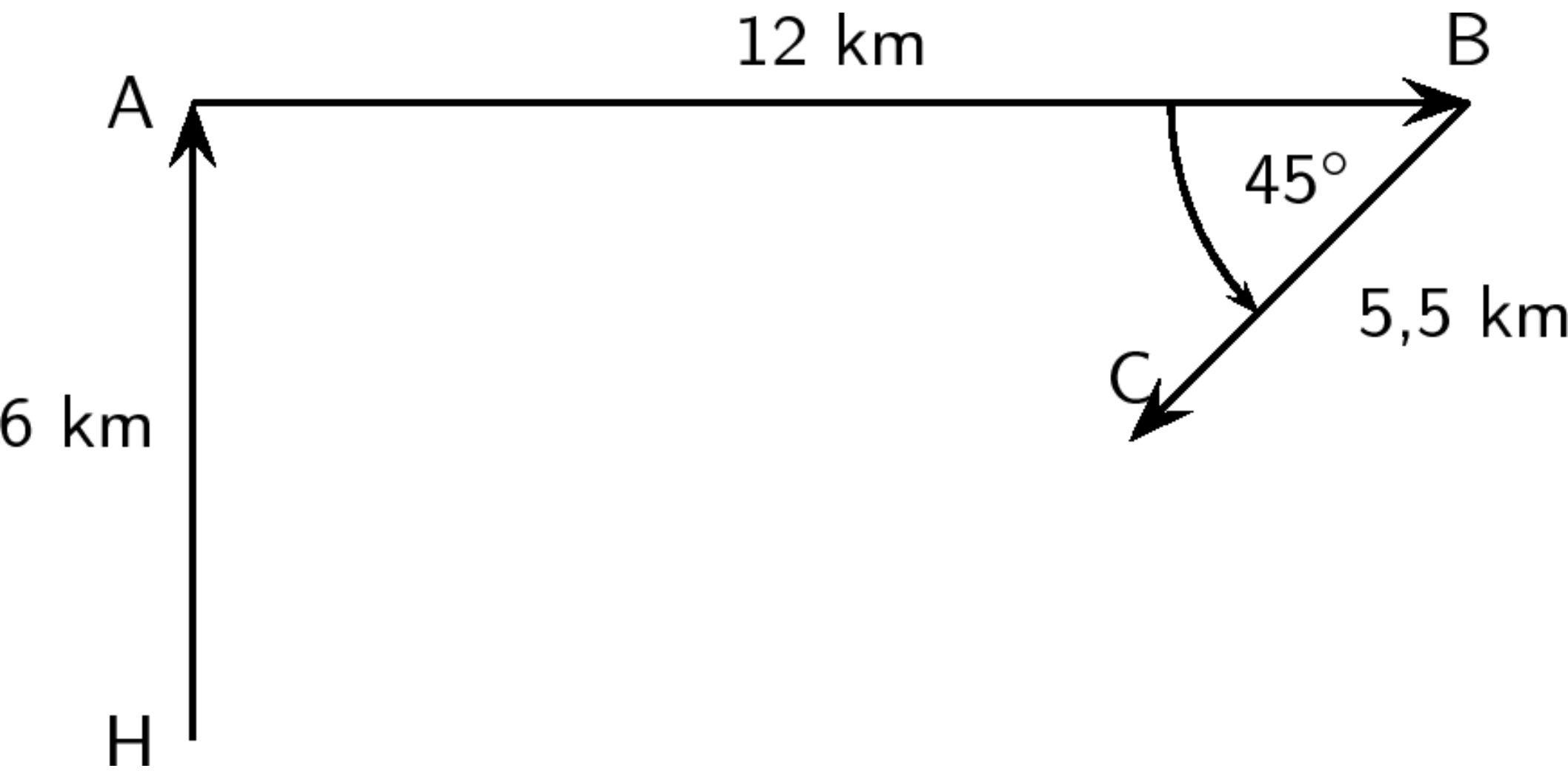
Magnitud y dirección

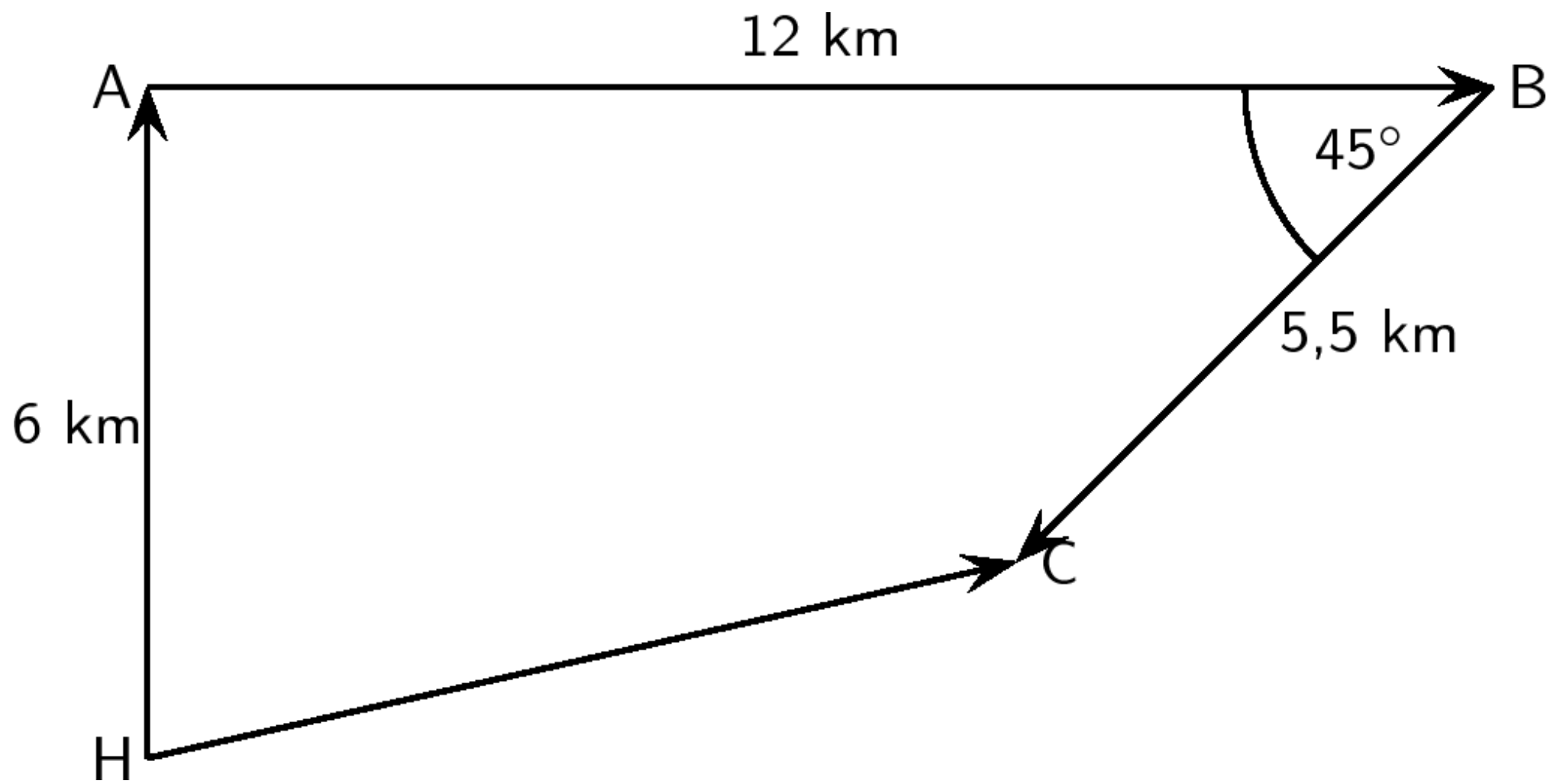


Ejemplo

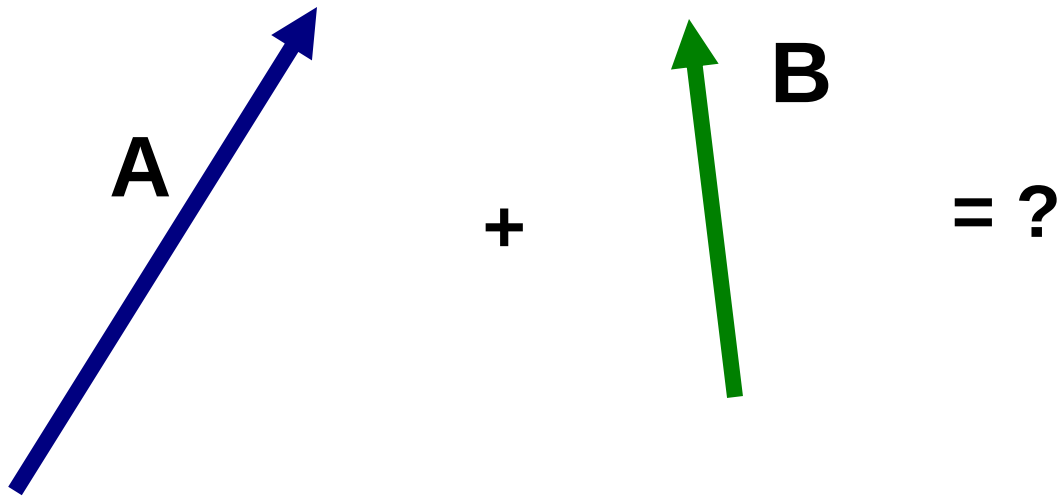




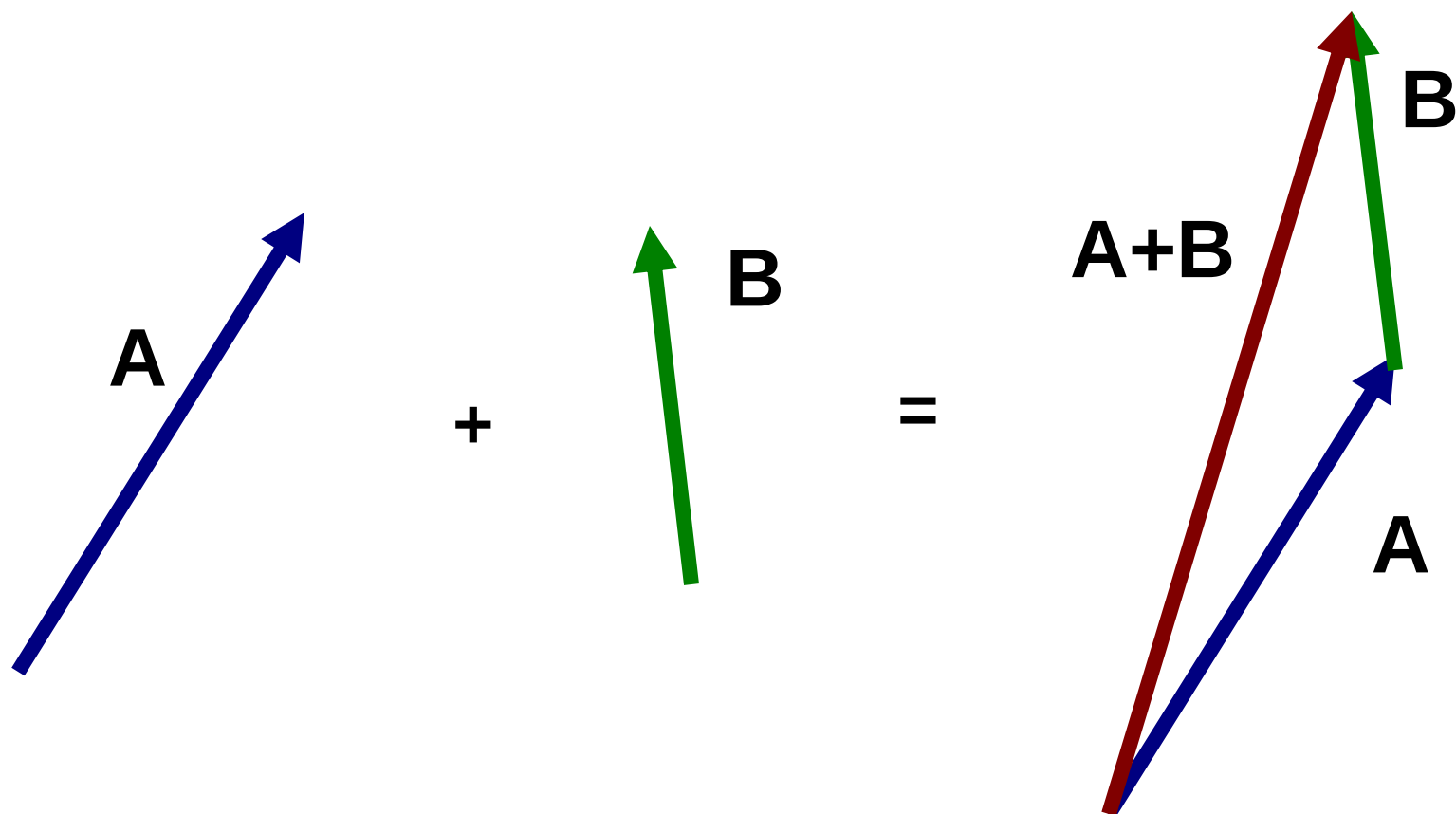




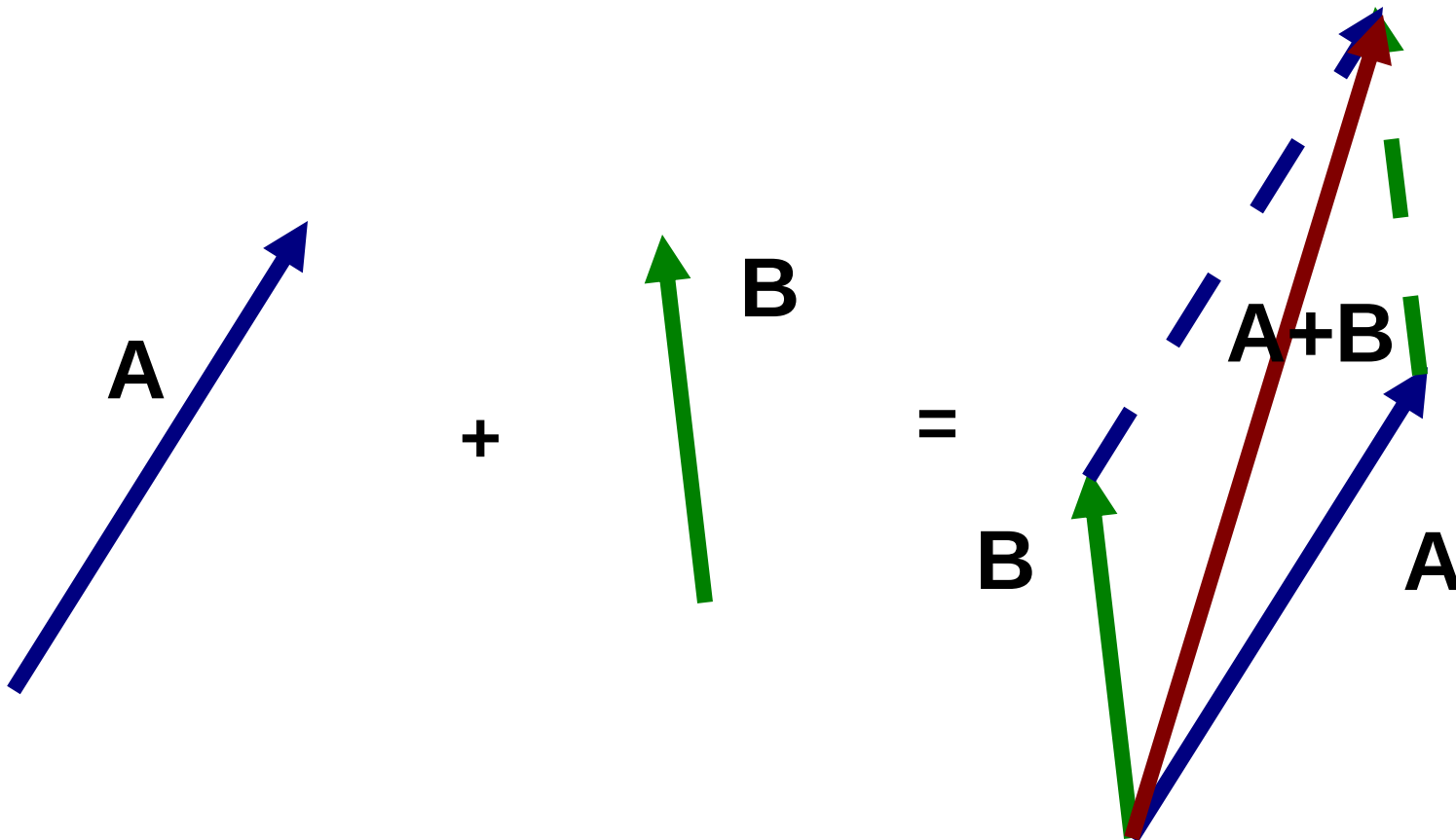
Suma de dos vectores



Suma de dos vectores: metodo gráfico

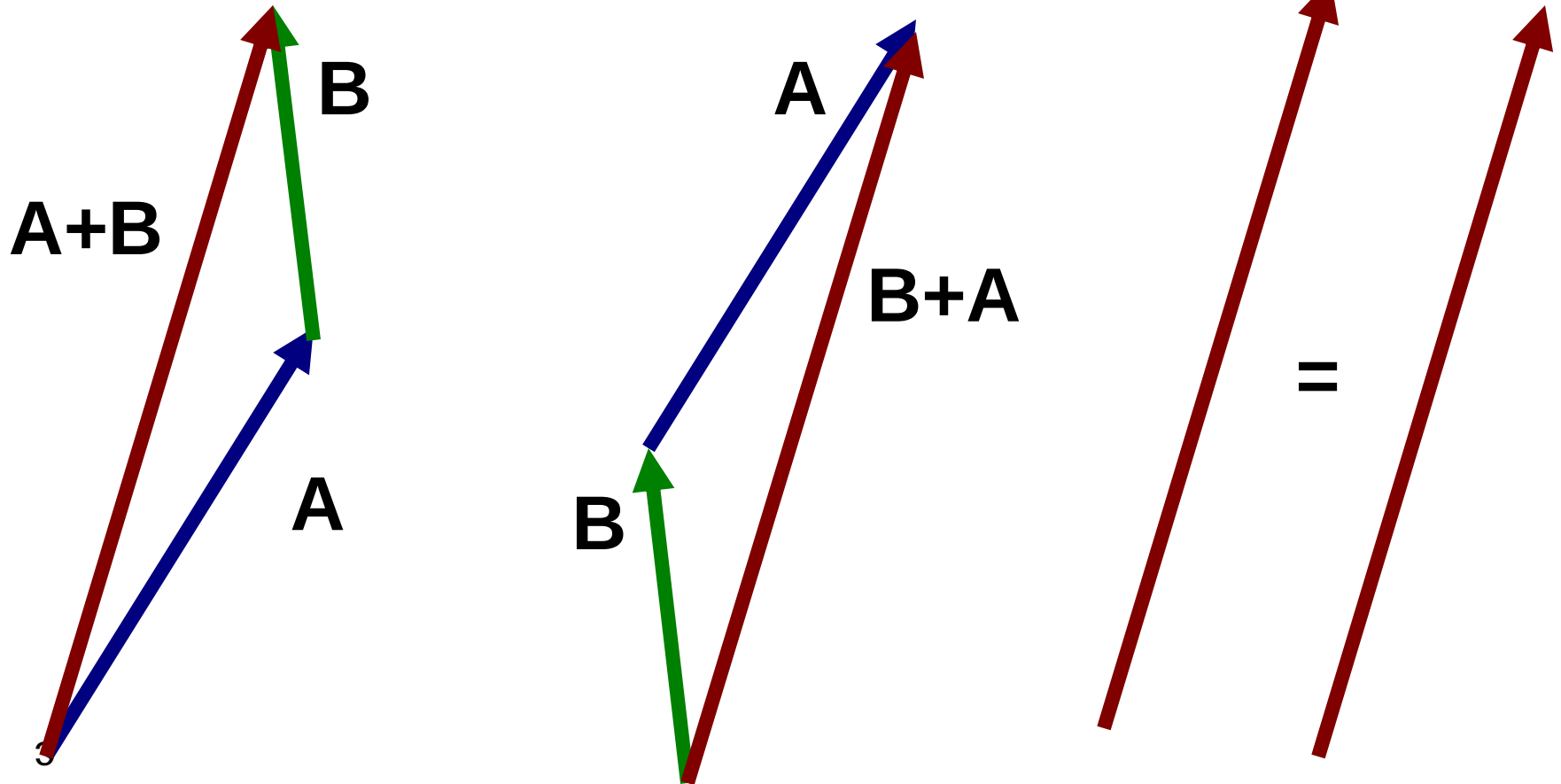


Suma de dos vectores: metodo del paralelogramo



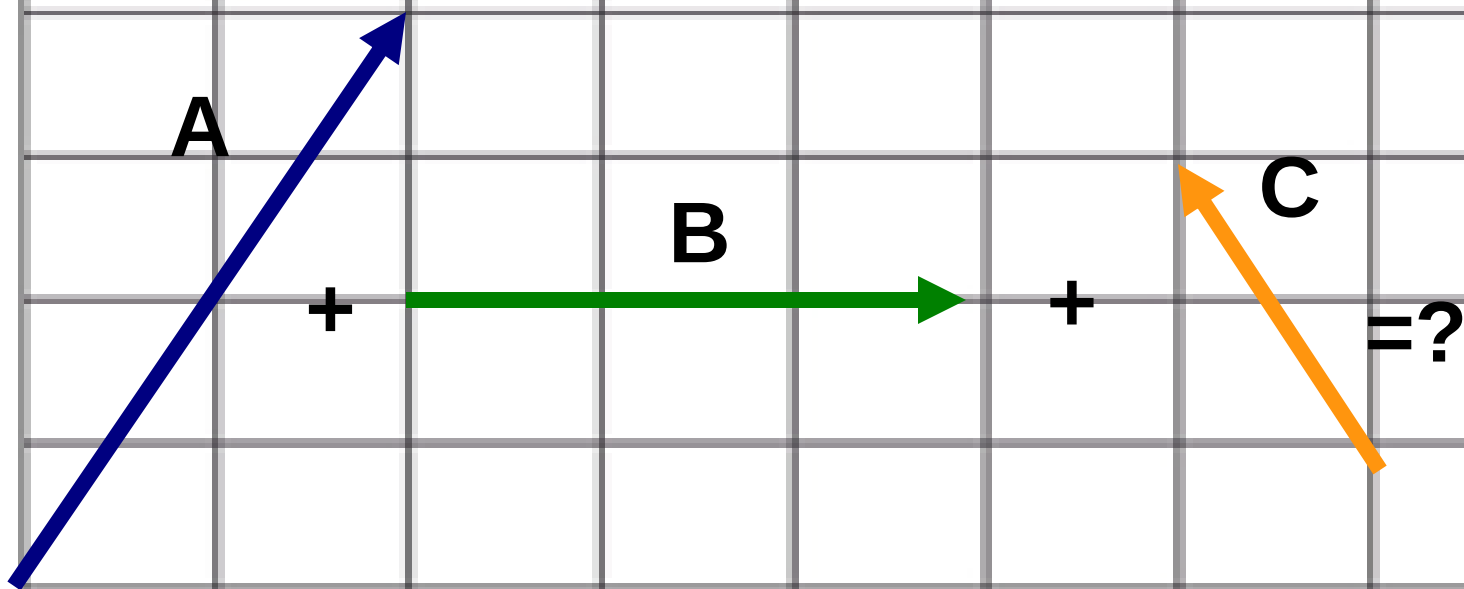
La suma es conmutativa

$$A+B = B+A$$

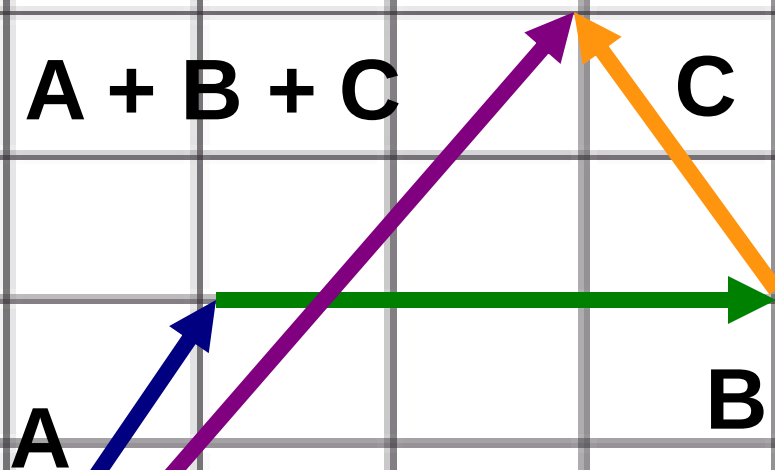


Sumar más de dos vectores

$$\mathbf{A} + \mathbf{B} + \mathbf{C} = ?$$



Sumar más de dos vectores





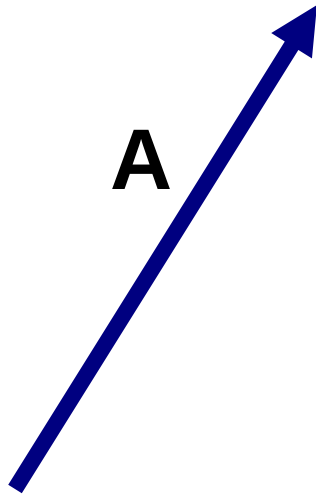
"Twin Arrows"

(Source: Chuck Coker)

http://www.flickr.com/photos/caveman_92223/3968354441/

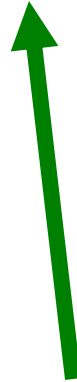
Resta de dos vectores

$$A - B = ?$$



A

-



B

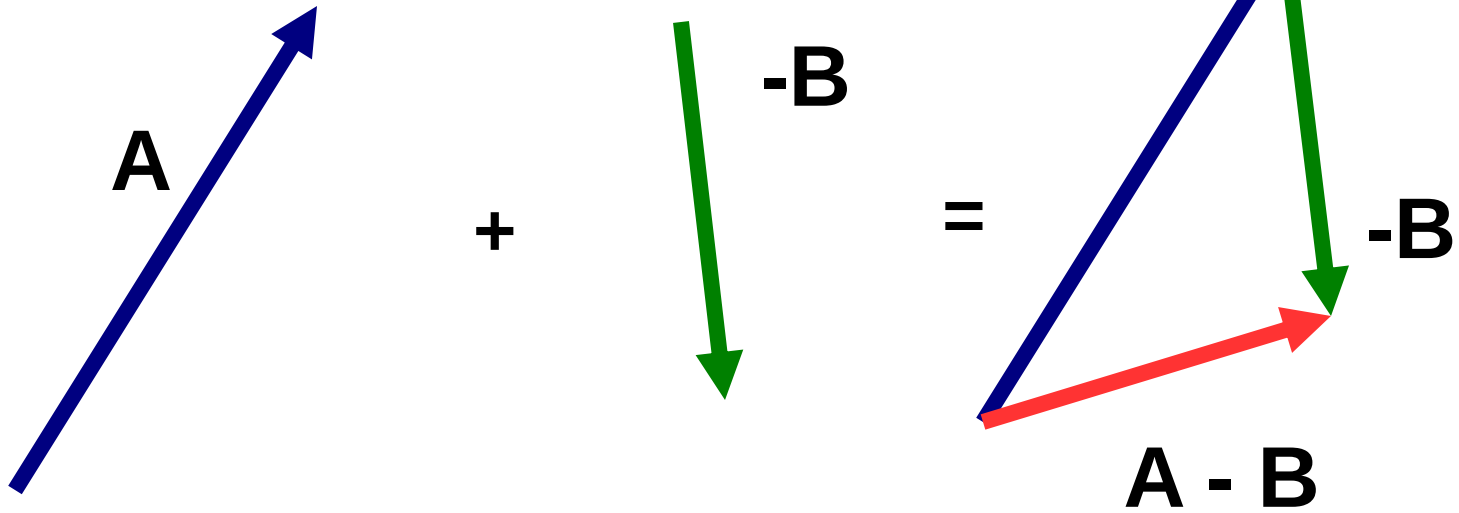
= ?

Resta de dos vectores: inverso de un vector



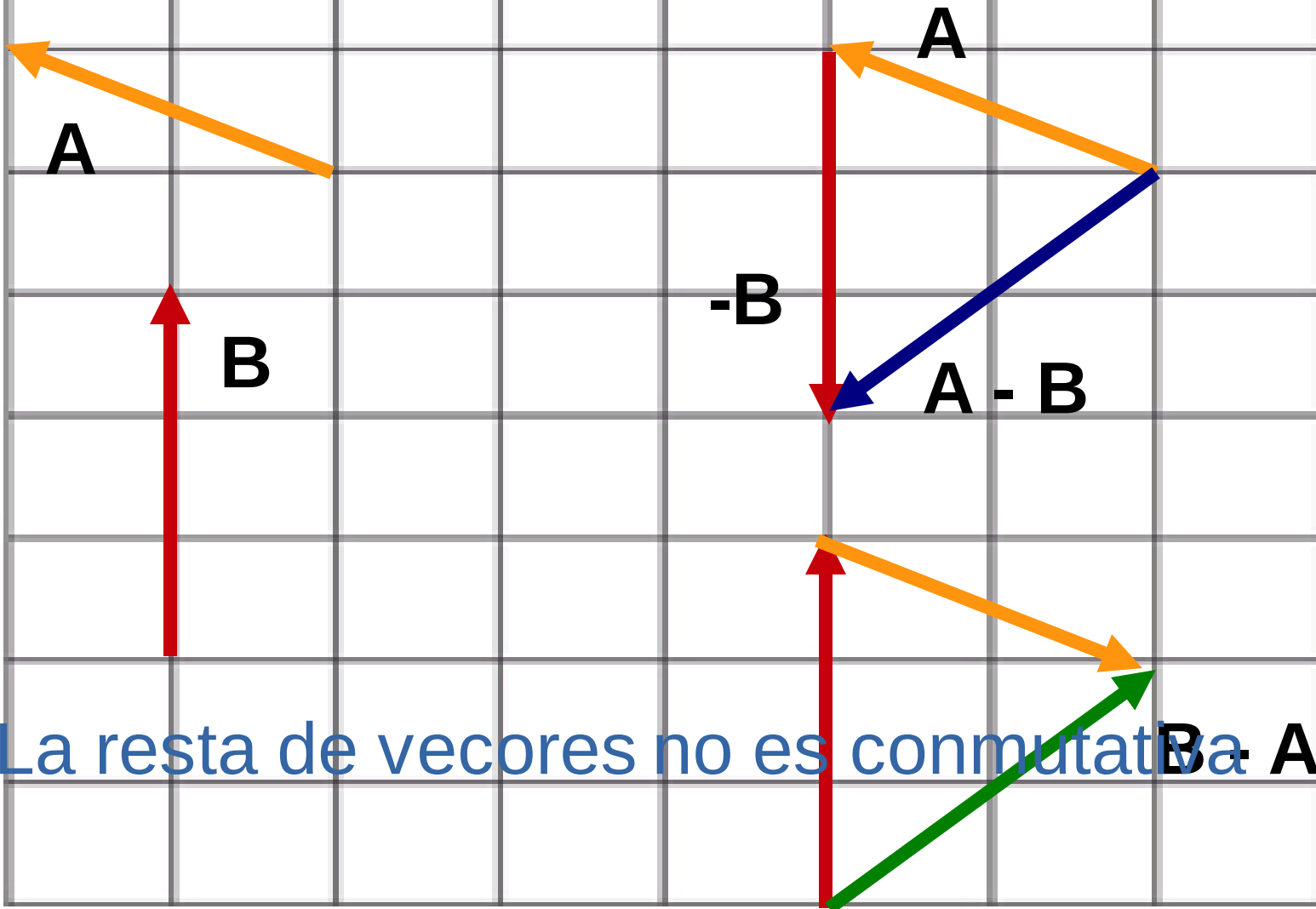
Resta de dos vectores

$$A - B = A + (-B)$$



Resta de dos vectores

$$A - B = B - A \quad ?$$



La resta de vectores no es conmutativa