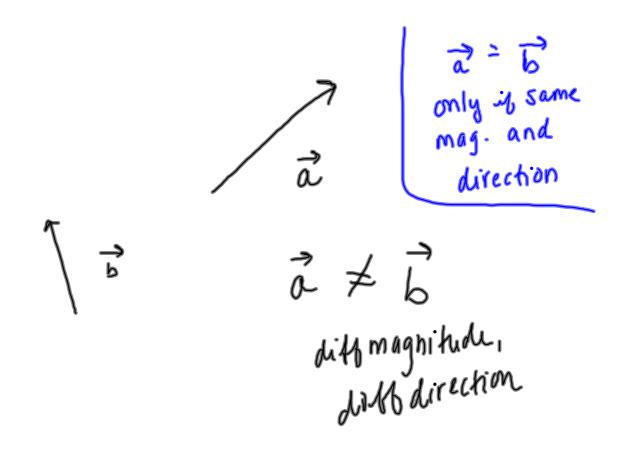
Vectors are represented by a ray.

length of ray = nonghitude longhitude
Of vector

direction of ray= direction of Vector

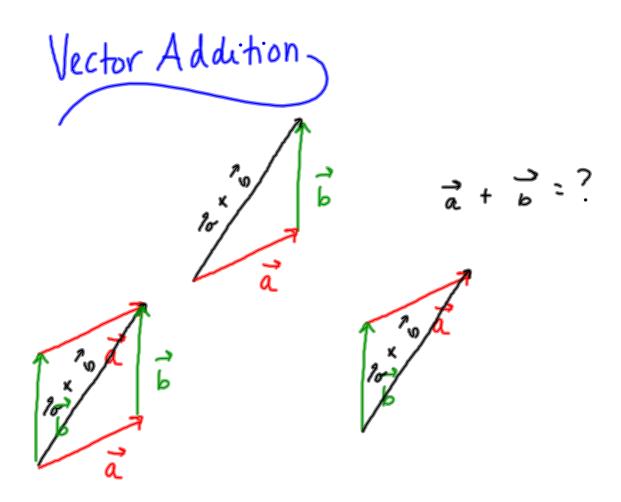


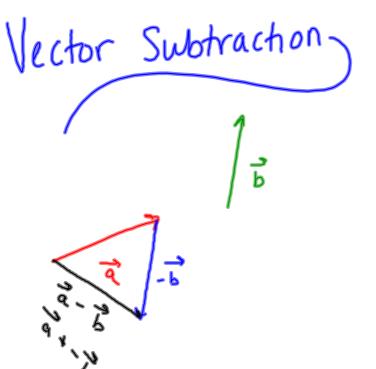
Multiplication:

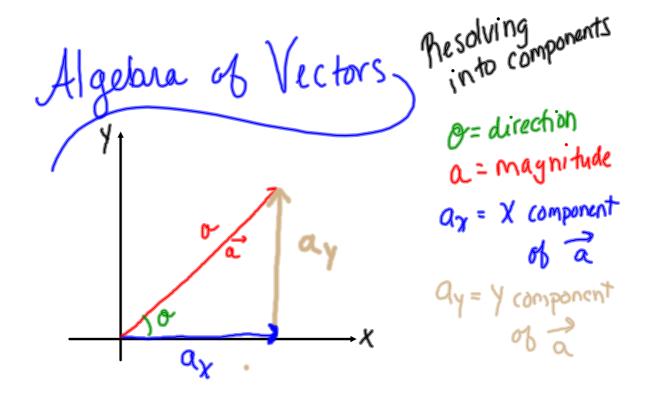
· Vector by vector (Not this year)

· Vector by Scalor

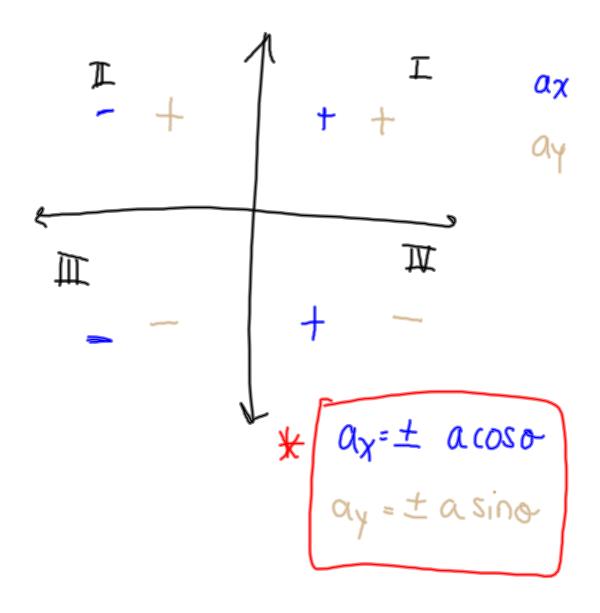
$$\vec{a} \cdot \vec{a} = \vec{a}$$



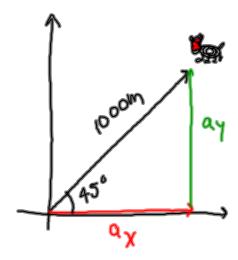




SOH CAH TOA



A bear walks 1000 m at 45 degrees NE. Find the \times and y components of its displacement.



$$a_{\chi} = 1000 \cos 45$$

$$a_{\chi} = 707.1 \text{m}$$

A pony gallops 2000 m at 70° SW

Find the x and y displacement of her galloping. (Additional info: This is a My Little Pony with a glitter mane and pink toenails:))

