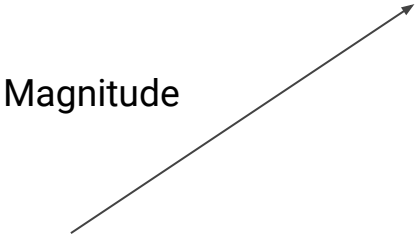
VECTORS

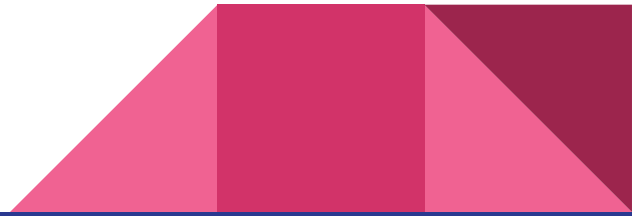
VECTOR

A vector is a quantities which are fully defined by both magnitude and directions



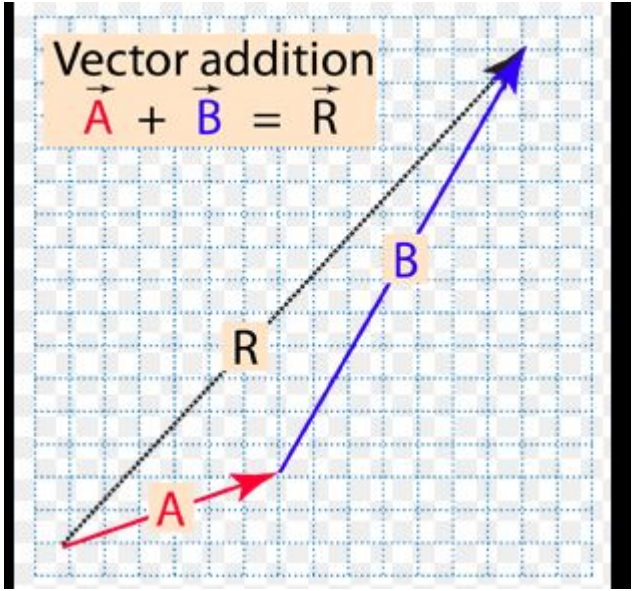
Types of vectors

1. Unit vector - Vector with magnitude one(1)
2. Co- initial vector - Vectors having same point of origin
3. Collinear vectors - vectors that are parallel to each other
4. Equal vectors -vectors that are equal in magnitude and directions
5. Negative vector - Vectors having equal magnitude but opposite direction

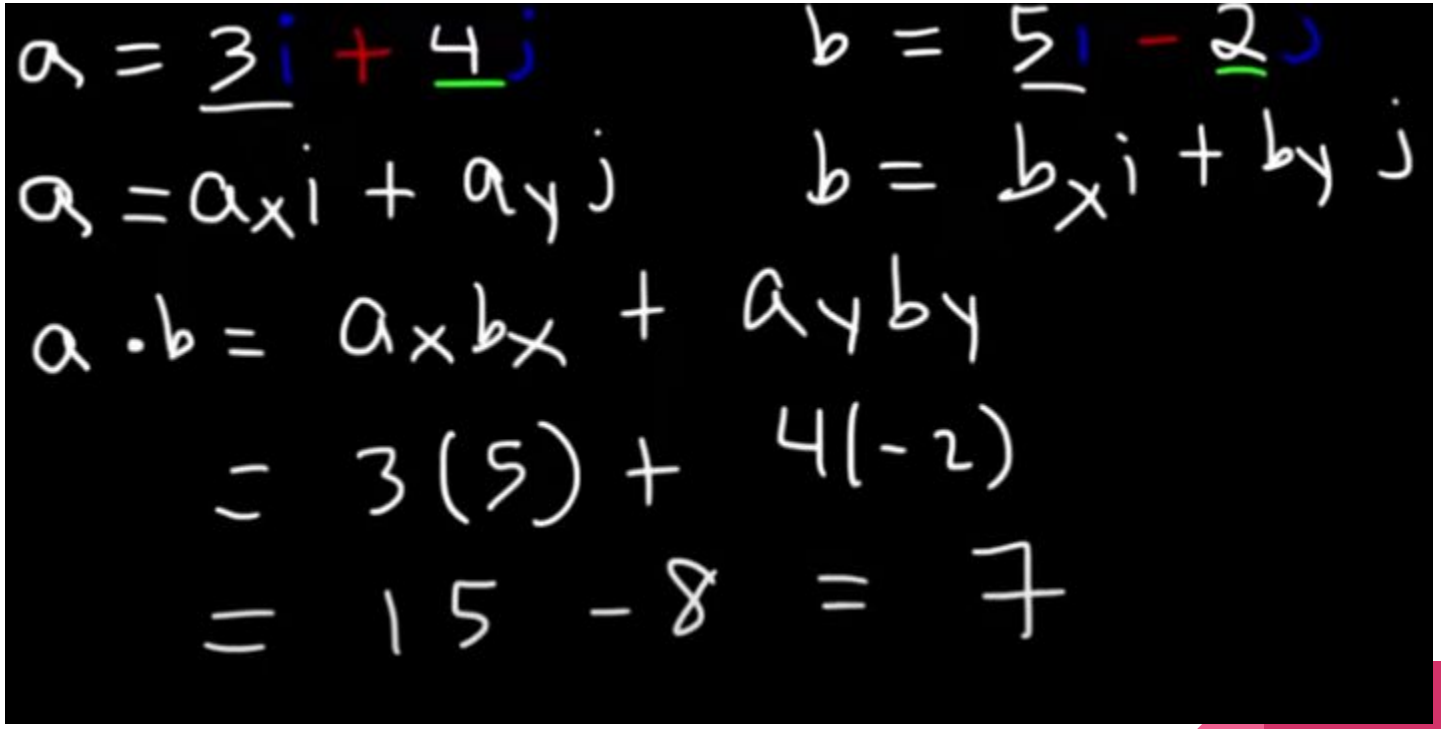


Vector operations

Vector addition:



Dot product:



Cross product :