Veitors There are two types of quantities in maths.

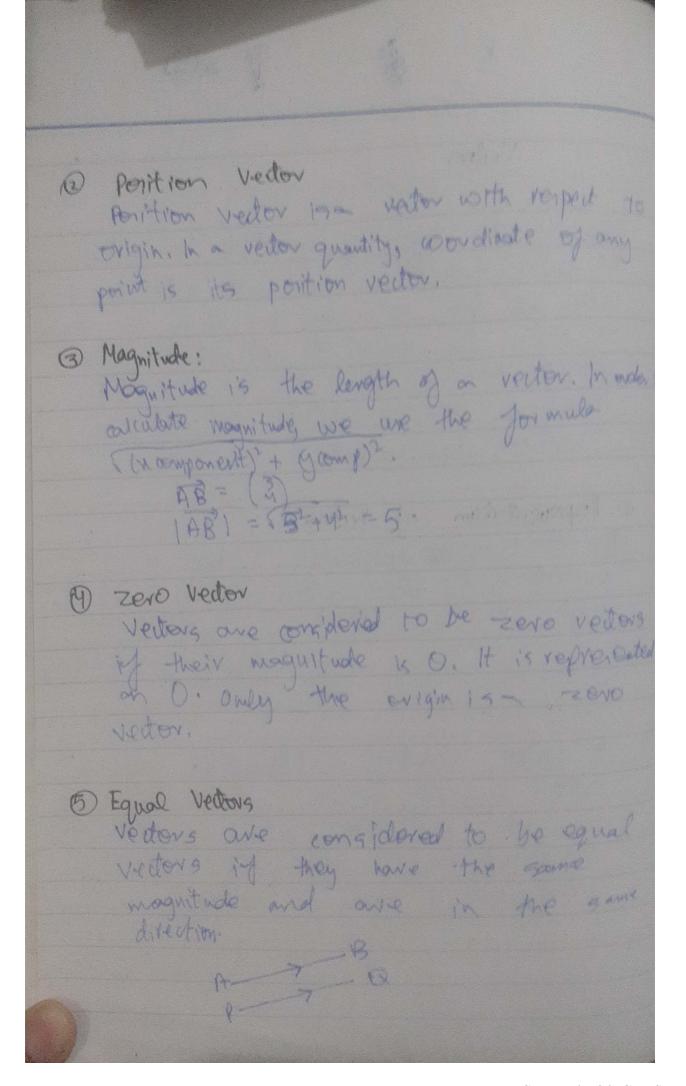
the goalar quantity and the vector quantity. when we refer to scalar quantities, our anoun is only the magnitude, irrespective of the direction. However, when we refer to wester quantities, both magnitude on well an direction are important. O Representation of Vectors A vector is represented in three ways:

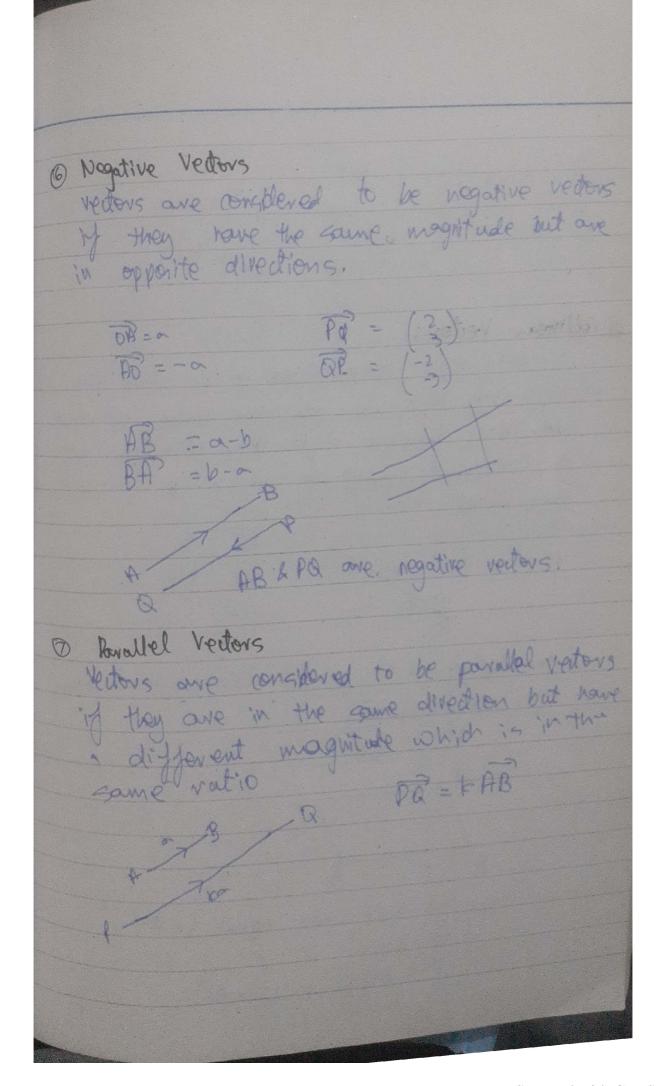
coordinate form, column vector form; carteson form.

(xy)

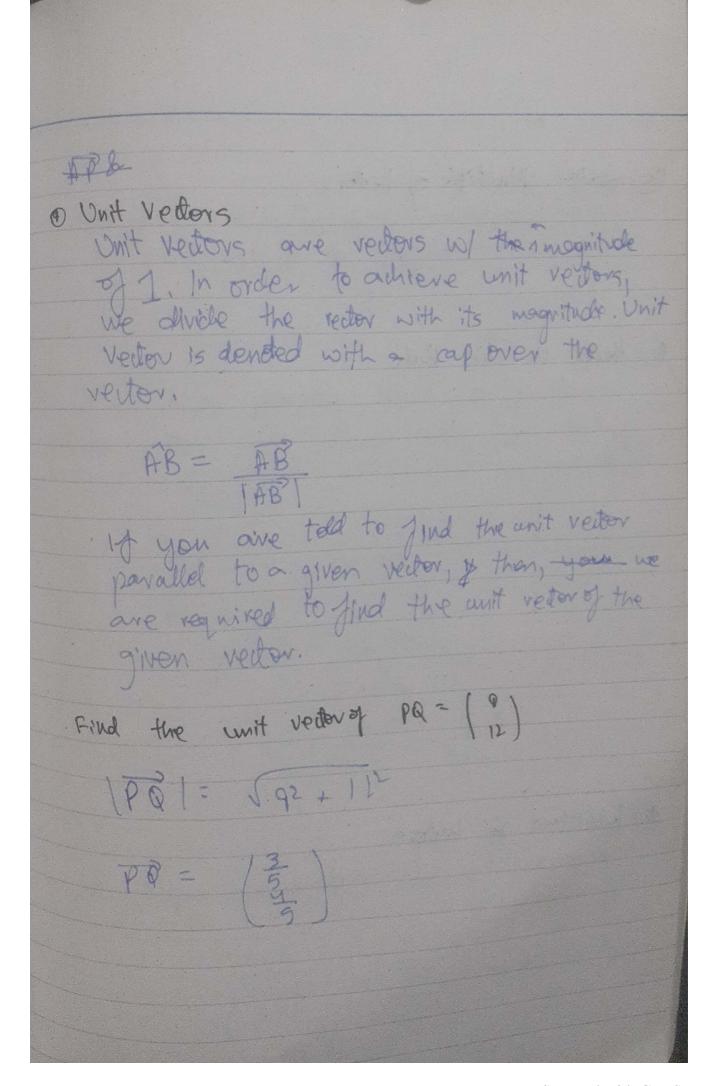
(xy)

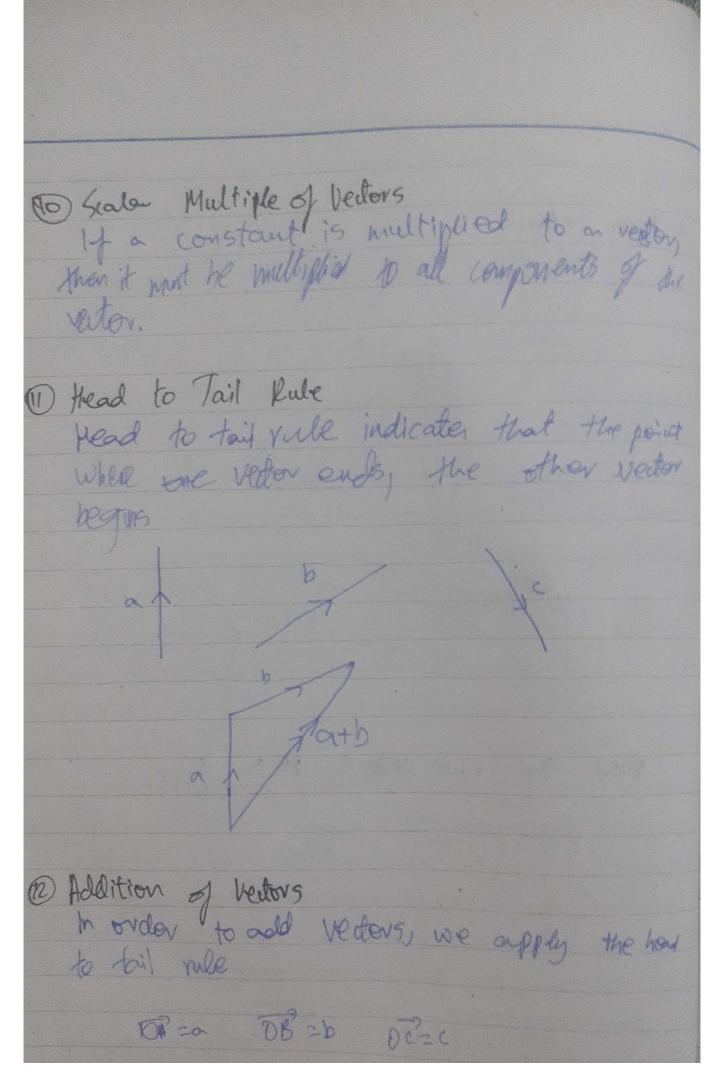
(xy) where i denotes movement across a axis and denotes movement along y axis. A vector quantity is differentiable from a scalar quantity by the fact that a victor Transity will always have an arrow above which does not have our owner.

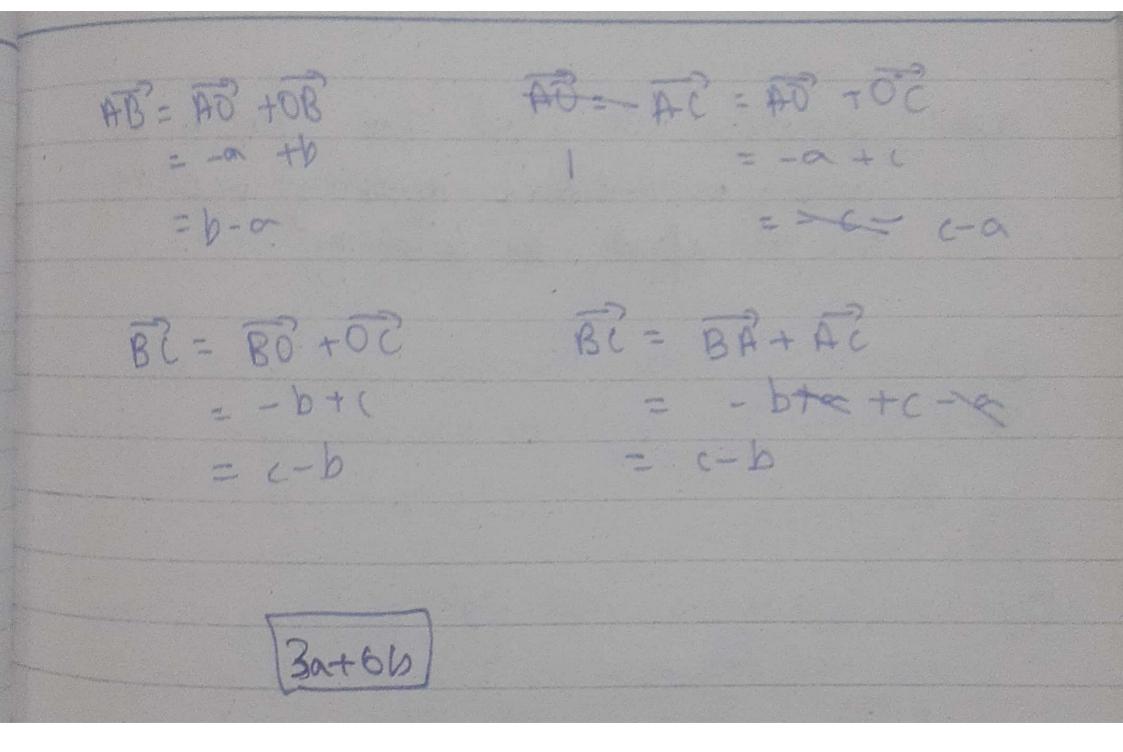




X7= (1) @ Collivear Vectors Vectors are constolered to be collinear vetters if they he on the same straight line. Thus, howing the sme direction but a different magnitude which is in the some vatio. AB = ai -> can distinguish blu pavallel and allinear rectors Via common paint AB BA AB200 are equal vetters 40 &BC AP & AB 11 parallel,







Note: Inorder to find the ratio of avera, inquestions involving vectors, we will apply the following O Observe of the triangles are similar, of it was the formula We will bloggerve if there is a common aide along with either parallel lines or common bane. If they exist, we will use the formula the formula to be the parallel to be the parallel to be the parallel to be the formula to be the