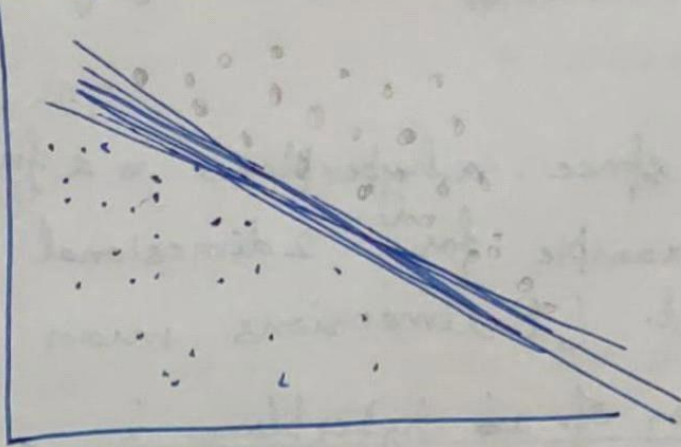


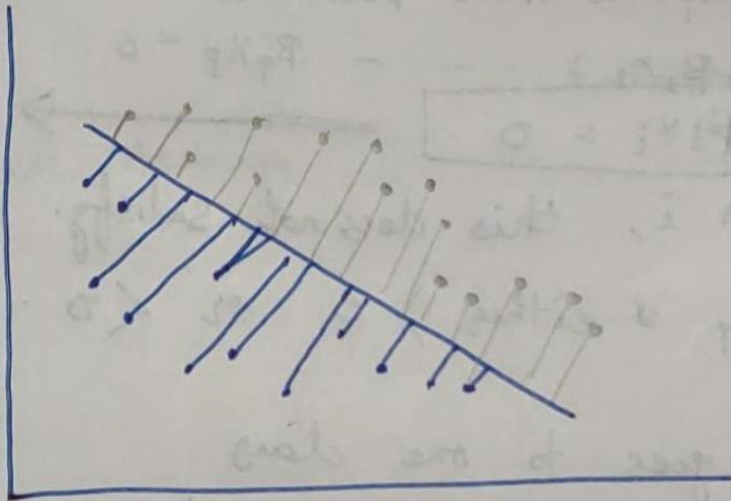
Maximum margin classifier (MMC)

As we can see we have to find a segregating line, but we can have several such lines



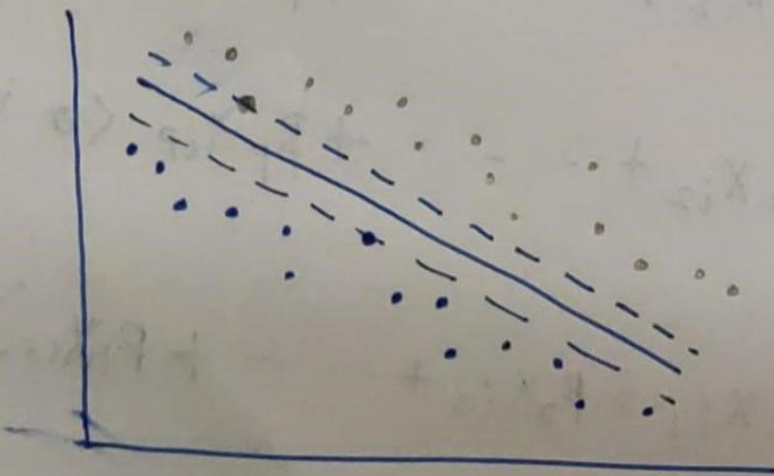
How will I choose which one to choose.

So I will draw a line and check the distance of each point from that line and try to find the maximum distance.



The sum of pencil dots + sum of pen dots should be maximum at a particular point.

Support vectors



These dotted lines are support vectors, as they are the lines going through equidistant points from the MMC. As if these lines shift then the (MMC) will also shift.