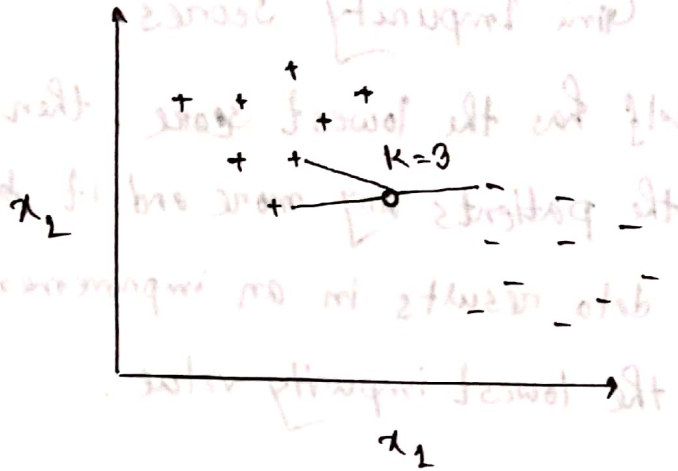
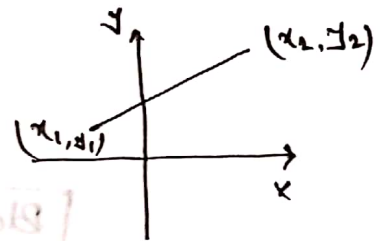


KNN (K Nearest Neighbors)



To calculate distance,
Euclidean Distance,

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$



In general case,

$$\sqrt{\sum_{i=1}^n (q_i - p_i)^2} ; n = \text{no. of dimensions}$$

The value of k here, defines how many data point it will consider around it. Technically the testing data calculates the distance between all the training data and finally consider the algorithm based on the value of k .