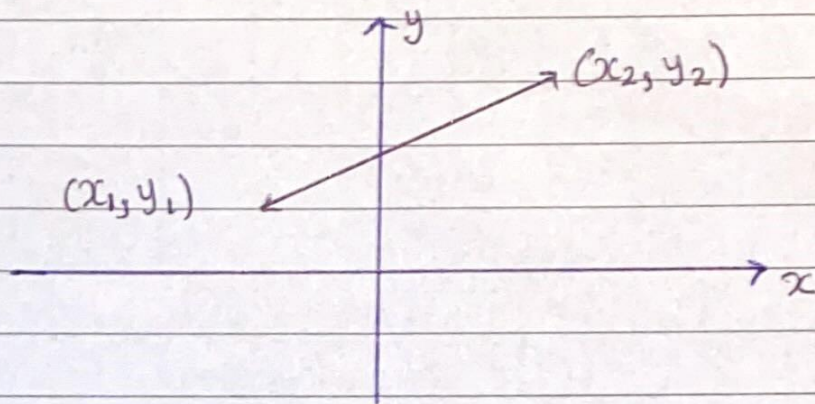# KNN (k-Nearest Neighbors)

o Euclidean distance

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

o In more general case the formula is

$$d = \sqrt{\sum_{i=1}^{n} (q_i - p_i)^2}$$

where;
   n is the number of dimensions