## ML Problem Solving

## K-Nearest Neighbor Classifier

1.	Consider the following dataset, where each row is an observation	. First and second columns are input features and the
	true output is the last column.	

$$D = [[3,3,1],[1,1,1],[-1,0,1],[2,2,0],[-2,2,0]]$$

Draw the data points in a coordinate system to represent your input space. Mark class 1 as an 'X' and class 0 as a 'O'. Hint: labeling datapoints help (e.g.,A,B,C...).

2. Create a  $5 \times 5$  distance matrix using euclidian distance. Hint: this is a symmetric matrix.

