

Practice Problem 9

Ian Chen

March 21, 2024

Problem 1 — Given the above data points, perform a k-means clustering on this dataset using Euclidean distance as the distance function. Here, k is chosen to be 3. The initial centroids are randomly selected as $(1,1)$, $(1,2)$, $(3,1)$. Show the steps of the algorithm until convergence. What are the final clusters and their final centroids?

Answer