MSBD5002: Data Mining and Knowledge Discovery (MicroMasters) Exercise 3 Agglomerative Approach

Q1 Agglomerative Approach

There are four two-dimensional points:

x₁ (1, 2), x₂ (2, 2), x₃ (5, 2), x₄ (6, 1).

- (a) Assume that we adopt the Euclidean distance metric as the distance between any two points. Please write a matrix where its entries correspond to the pairwise distances between any two points.
- (b) Please use the agglomerative approach to group these points with distance median linkage. Draw the corresponding dendrogram for the clustering. You are required to specify the distance metric in the dendrogram.