Problem 4 (10pts) To answer a numerical value, enter only the numerical value in the answer box and units are not required. If a problem statement says 'up to N decimal places", answer by rounding off the N+1 decimal places.

Clusters A and B contain the following two-dimensional data.

B: (1,1), (1,2), (2,2)

Find the distance between clusters A and B using the Ward method and answer up to the second decimal place.

In all mid4.csv, the types of wine (class column) and its characteristics (alcohol, malic, acid, ash column) are recorded. Perform hierarchical clustering using the alcohol, malic acid, and ash columns. Use the Ward method as the inter-cluster distance and the Euclidean distance as the distance function. You can use the ai mid4 sample lovnb file if needed.

Set the number of clusters is 3, create a cross-tabulation table with the class column, and answer the numbers of type A wine in clusters 1, 2, 3. respectively.

cluster 1

2.

cluster 2

46 cluster 3

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