K means Clustering Example

Q 1) solve the following using K Means Clustering with K=2

Solution:

Assign the points to cluster based on minimum distance with centroid

Step 2: New centroid points has to be calculated

Step 3: Reassign the centroid

Step 4: Reasign the centroid

Step 5: Reassign the centroid

Final clusters are K1={2,3,4,10,11,12 } &

Q2) Cluster the given set of values {2,3,6,8,9,12,15,18,22} into three clusters.

Solution:

$$K1=\{2\}$$

$$K2 = {3}$$

Final mean values are M1=2.5, M2=8.75, M3=18.33

$$K1=\{2,3\}$$