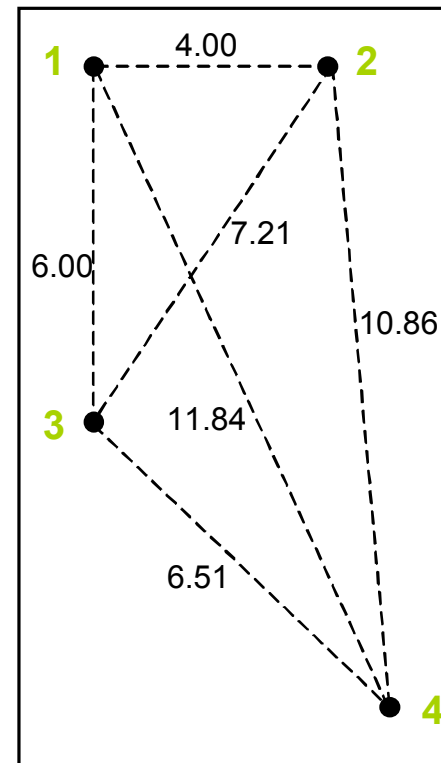


# 3. Cluster analysis

## 3.2. Single-linkage agglomerative clustering

Objects	2	3	4
1	4.00	6.00	11.84
2		7.21	10.86
3			6.51

Example: matrix of Euclidean distances among 4 objects

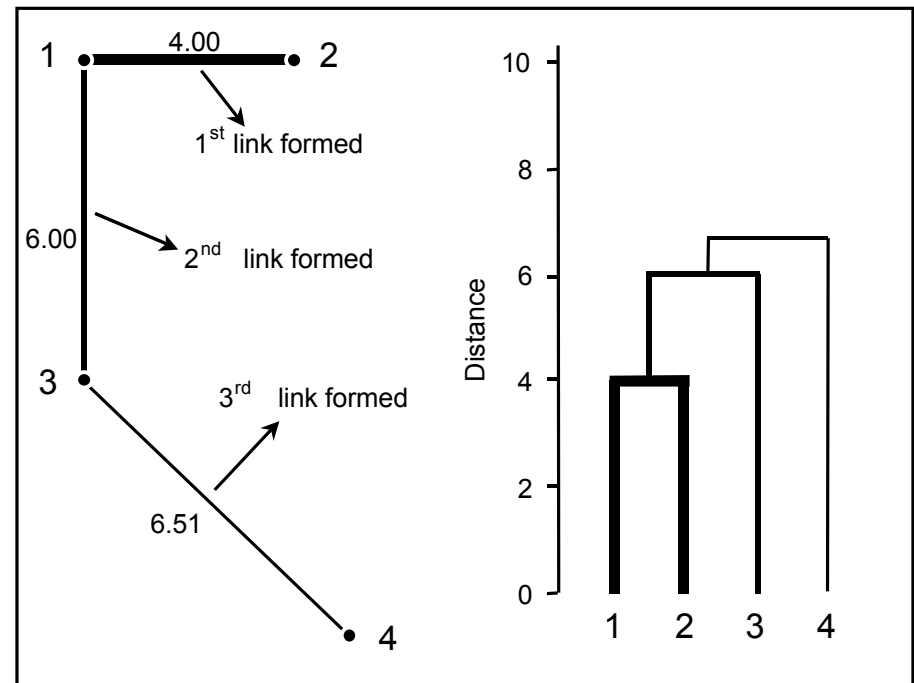


# 3. Cluster analysis

## 3.2. Single-linkage agglomerative clustering

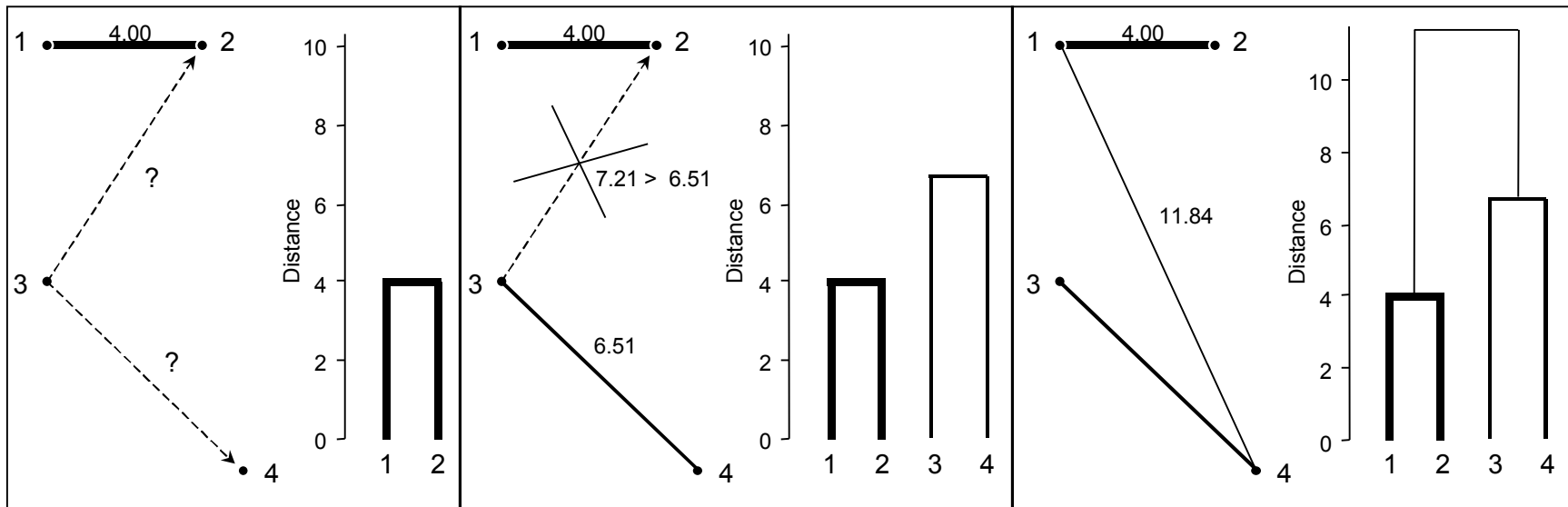
Objects	2	3	4
1	4.00	6.00	11.84
2		7.21	10.86
3			6.51

Example: matrix of Euclidean distances among 4 objects



# 3. Cluster analysis

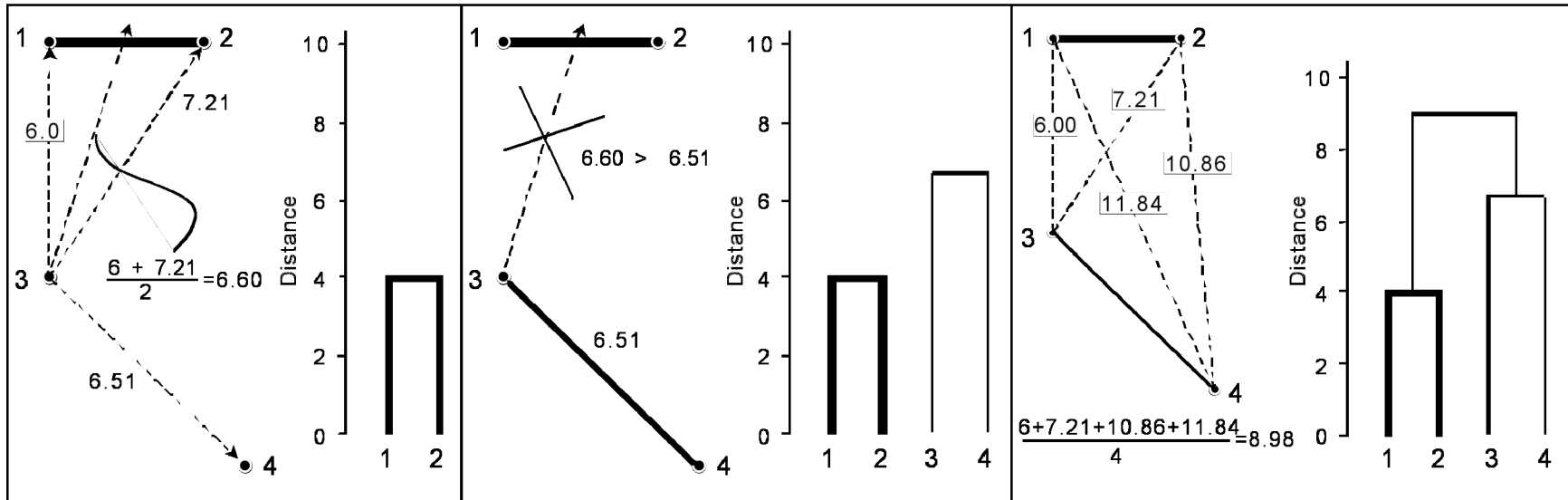
## 3.3. Complete linkage agglomerative clustering



# 3. Cluster analysis

## 3.5. Average agglomerative clustering

*Unweighted arithmetic average clustering (UPGMA)*



# 3. Cluster analysis

## 3.5. Average agglomerative clustering *Unweighted centroid clustering (UPGMC)*

