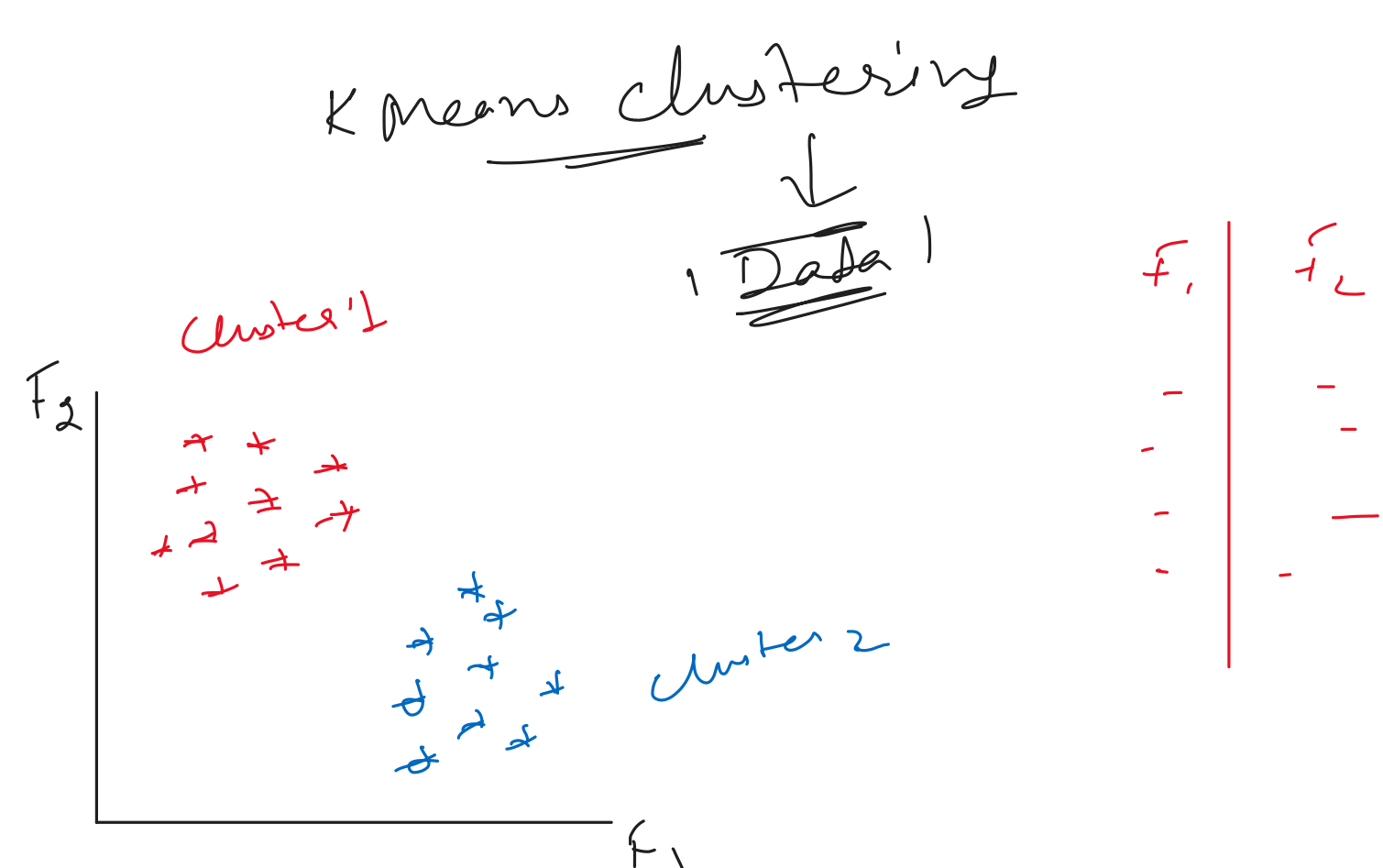
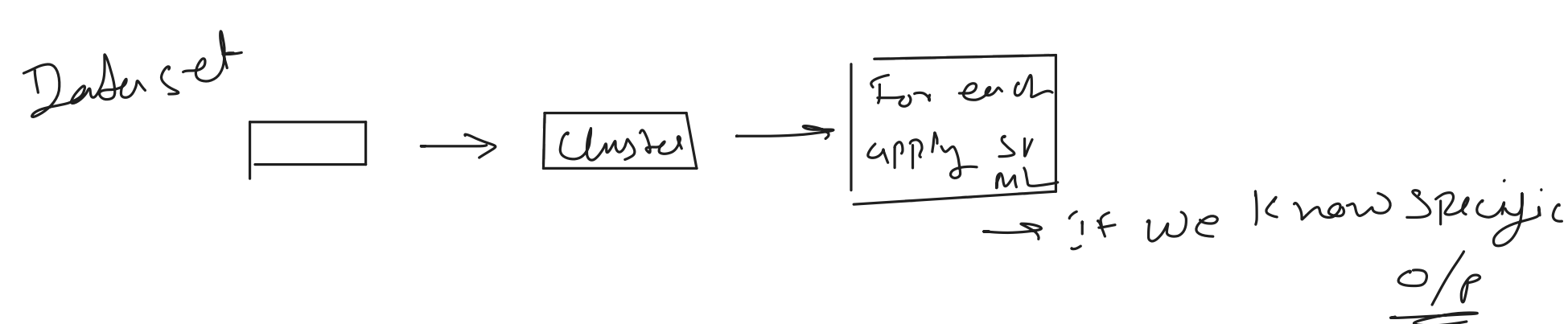


Unsupervised

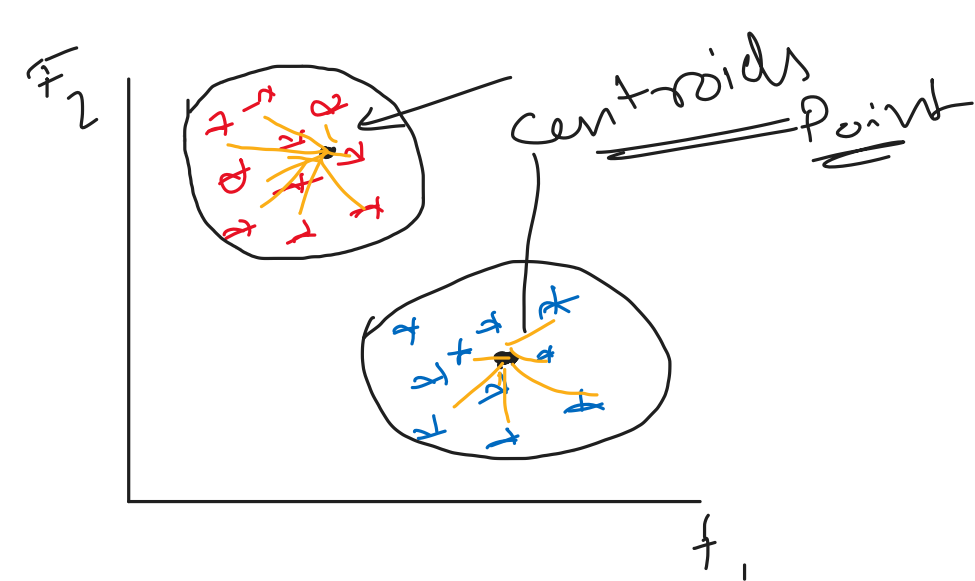
- ① K-means
② Hierarchical } Clustering f_1, f_2, f_3



When does clustering gets used?
↳ Custom Ensemble Technique



① K-Means
↑
 $K = \text{centroids}$

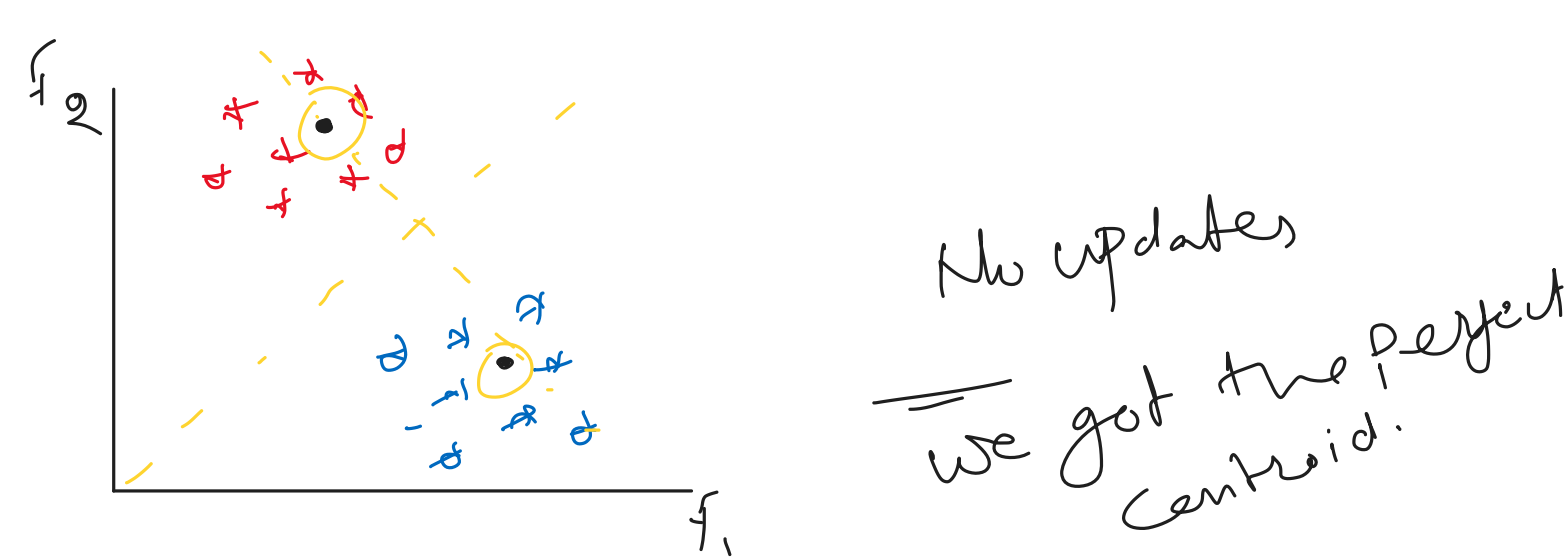


Step 1 Trying different K values

$K=1, K=2, K=3, \dots, K=N$

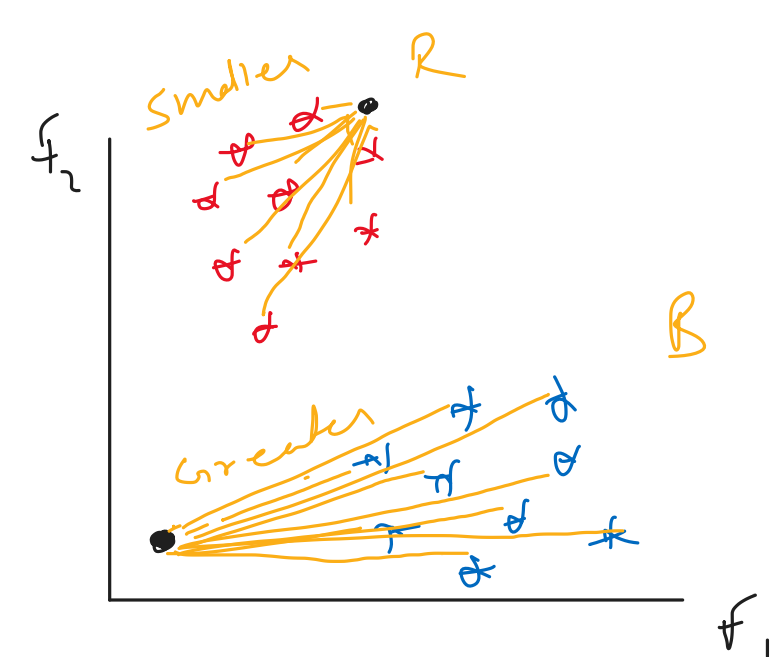
② Initialize K number of centroids
↳ (Euclidian distance)

③ compute the Average
↳ To update centroids
↳

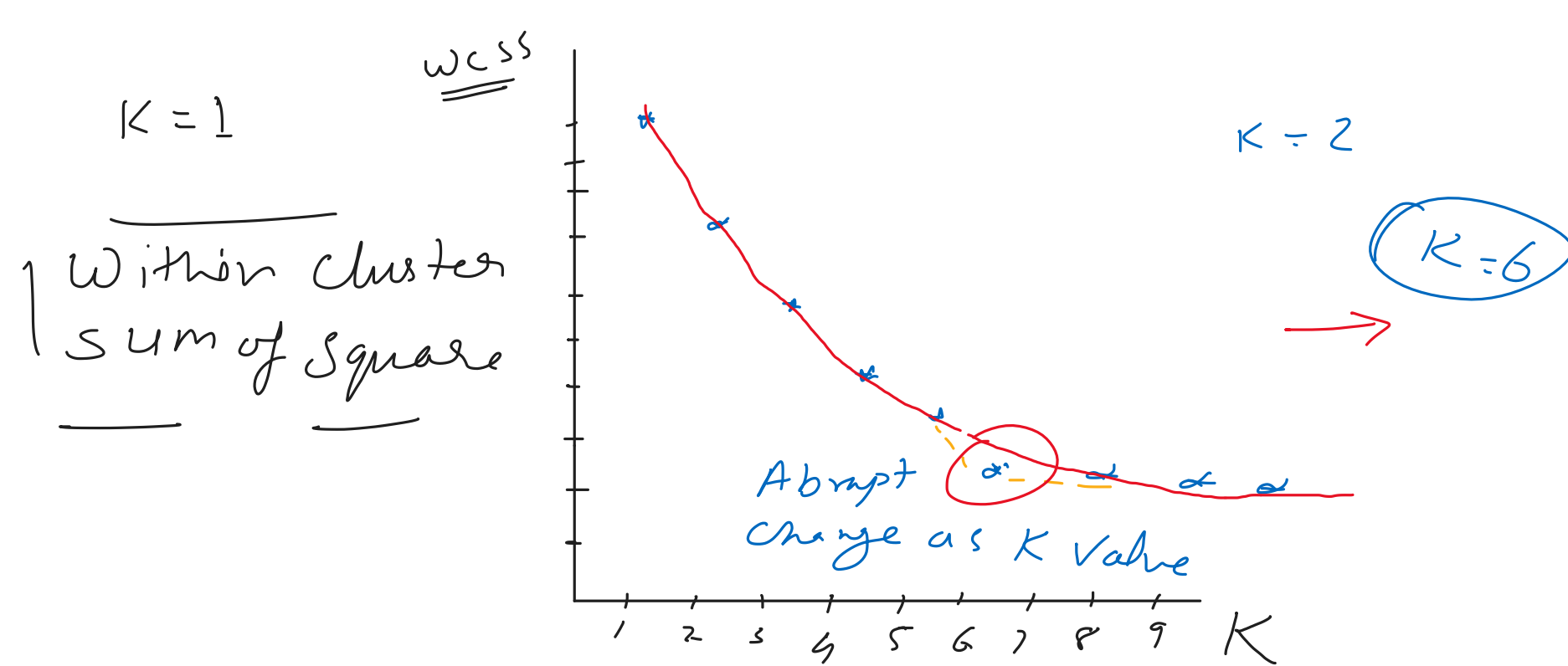


→ How do we decide the K-value?
⇒ Elbow Method

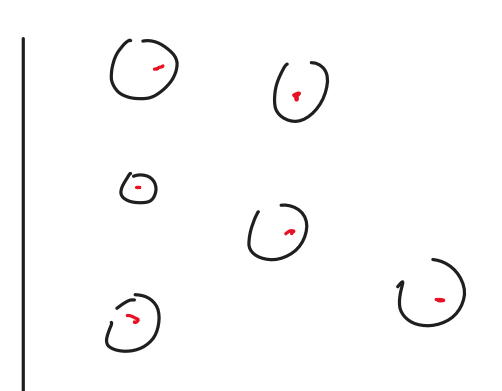
→ Elbow Method



like $2 \rightarrow 10$



$K=6$



① $P_1 - P_6$

⇒ Hierarchical

