Whats Northal k to use for this dafa? Sometimes we don't know which it to use. Purity -> intra-Class (intra-cluster) similarity is high inter- class Similarity is low in other words, data inside clusters should be consistent, while data among different Chusters should differ. Intra Cluster distance cluster i , distance for dC) avg. pairwise inta-cluster distance G: = \( \int\_{x,y} \) de for all clusters in Cluster Set. virighted in tra- Cluster diff for level; is Wj = Zi=, |Ci| Cri We want to minimize inter cluster distance \* when we merge, inta-Cluster distance increases - Choosing min. of this is not useful. well end of getting K=N, M? - (Mi. -Mi.) So, we look@ slope! e Choose place where there's skepest absolut Slope k= augmax (|W;|) ? How about whereis a greatest & Slope? \_ 2nd derivative! ( KMER of Crooph)