Auestron 2:

in each iteration each data point is a shipped to its closest center, therefore for the iterator:

 $cost (C_{i}^{(t+1)}, ..., C_{k}^{(t+1)}; z_{i}^{(t+1)}, ..., z_{k}^{(t+1)}) \leq \\ cost (C_{i}^{(t+1)}, ..., C_{k}^{(t+1)}; z_{i}^{(t+1)}, ..., z_{k}^{(t+1)})$

Livon each cluster 15 re-conserved but its mean hence

hence

cost (C(++1), ..., Ck (++1)

cost (C(++1), ..., Ck (++1), ..., Zk (++1)

cost (C(++1))

COST (C, CH), ..., Ch (+1); Z, (+1), ..., Ze (+1)).