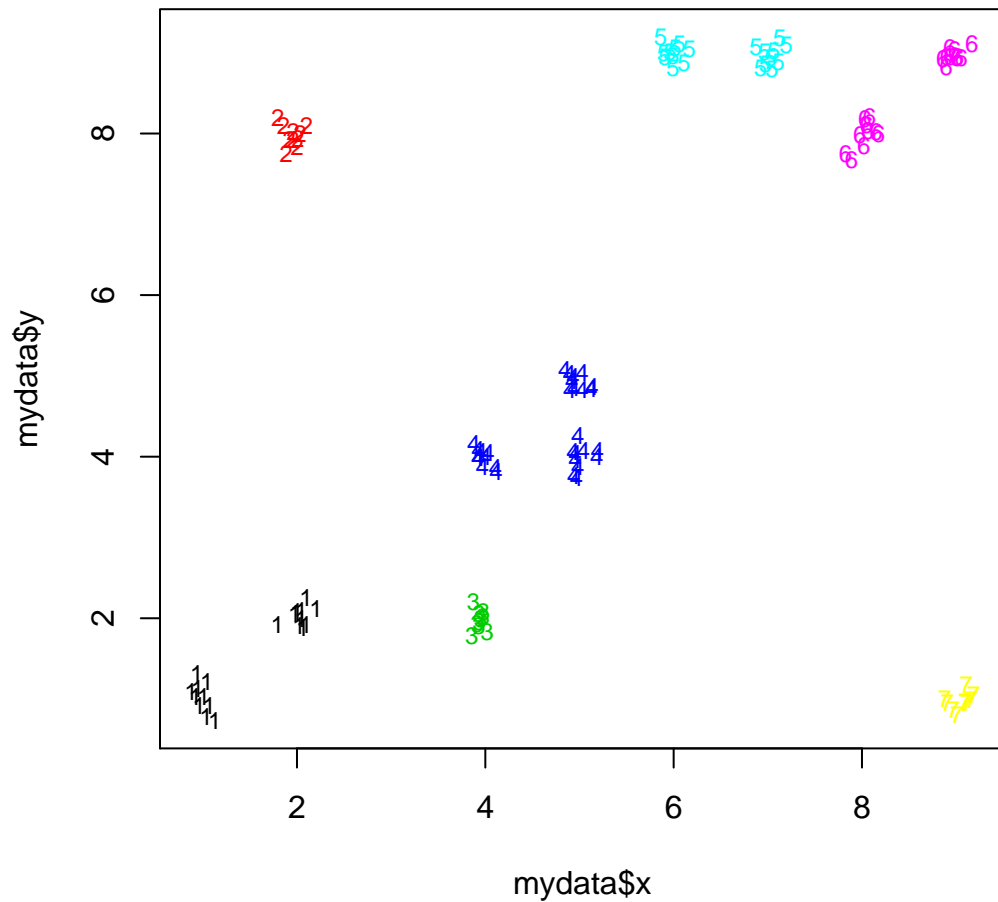
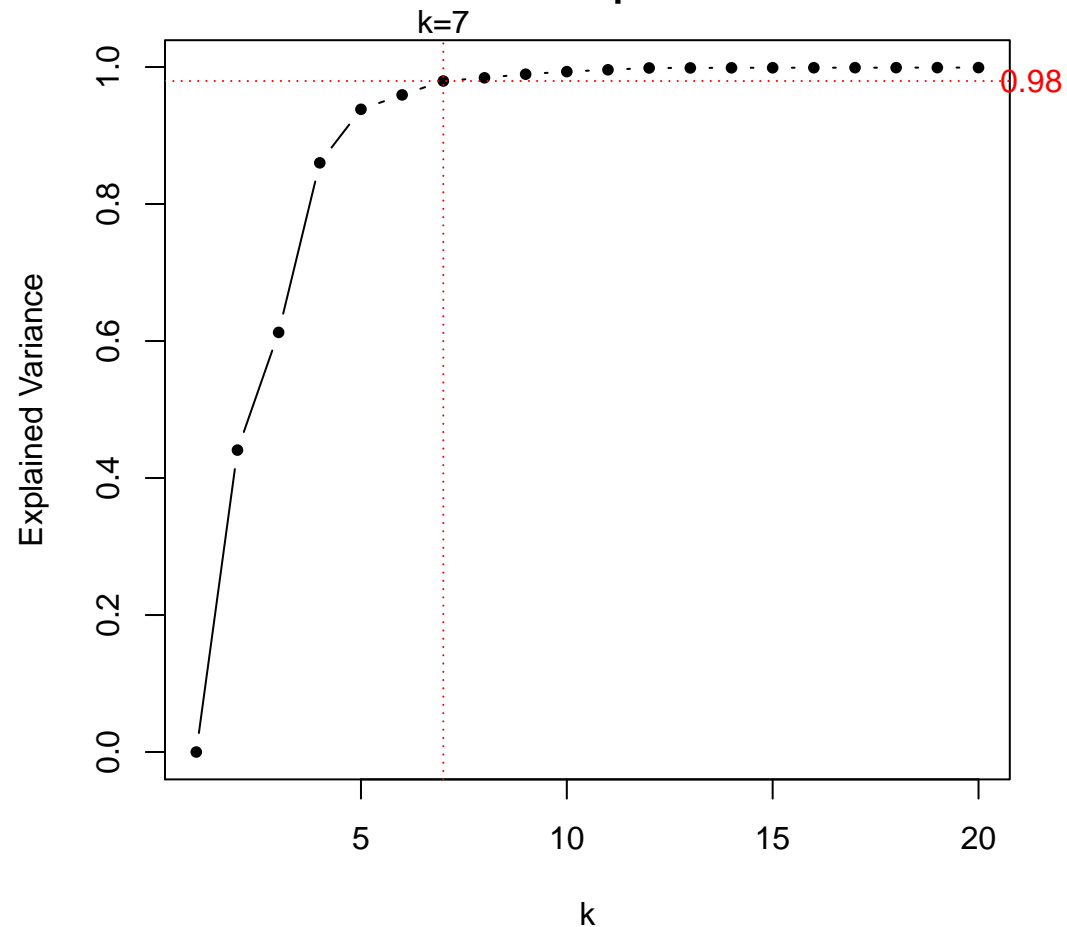


Clusters of simulated data

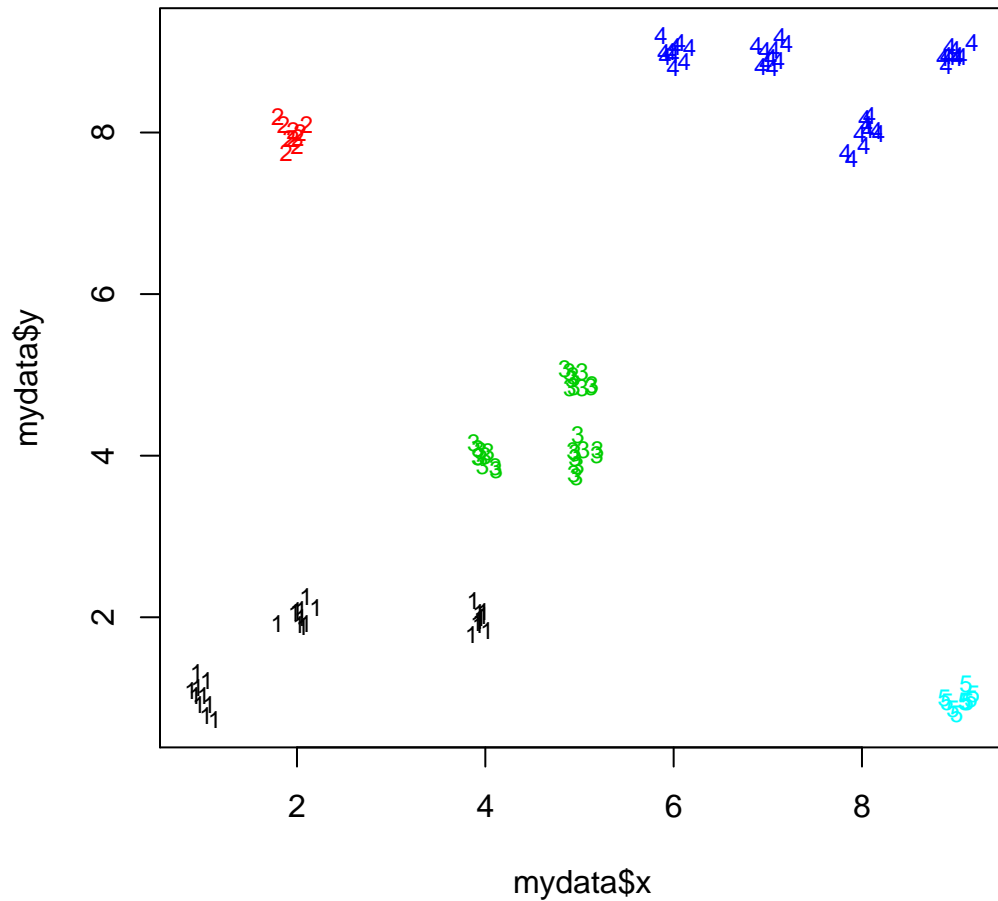


Elbow plot

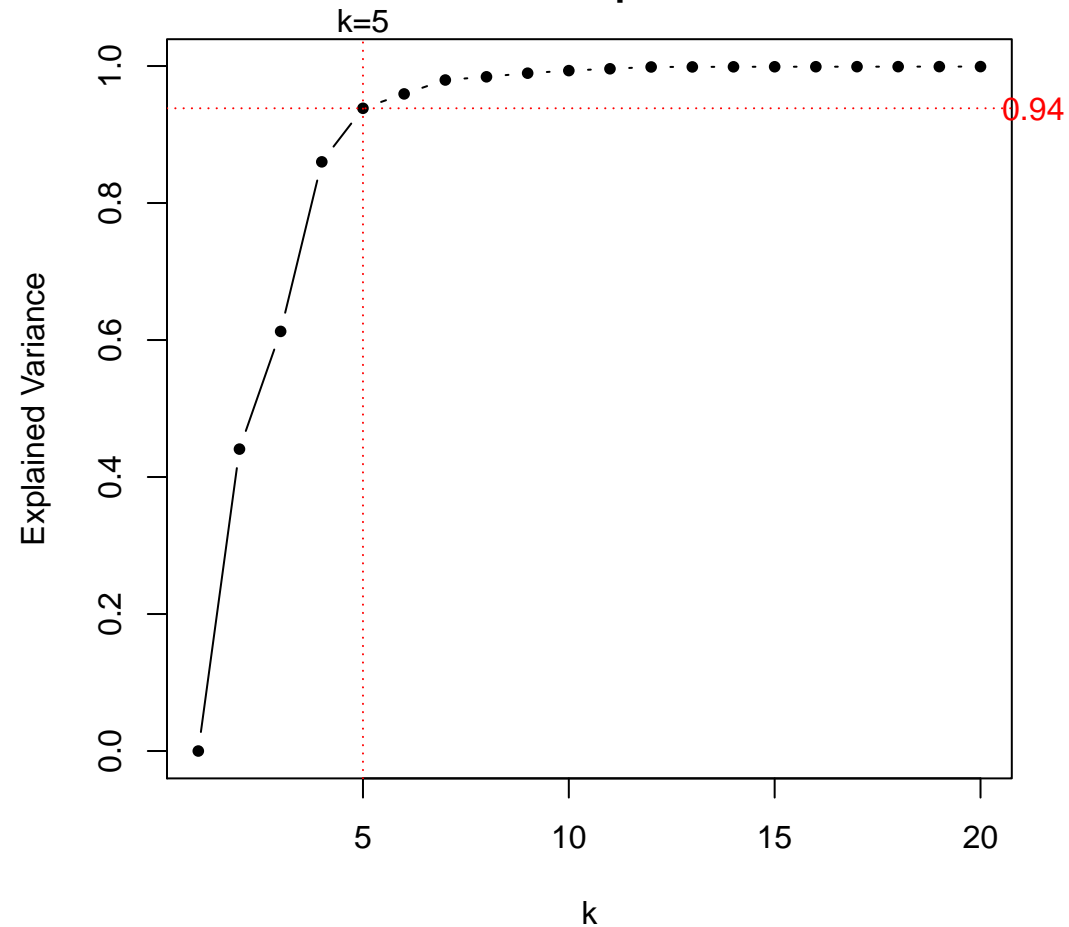


A "good" $k=7$ ($EV=0.98$) is detected when the EV is no less than 0.95 and the increment of EV is no more than 0.01 for a bigger k .

Clusters of simulated data



Elbow plot



A "good" $k=5$ ($EV=0.94$) is detected when the EV is no less than 0.9 and the increment of EV is no more than 0.05 for a bigger k .