

### Quiz 10 Social Networks

1) Explain how AGM works for finding communities in a network graph with MLE. You can use an example to show the MLE process with AGM. You need to explain how the MLE process needs to be repeated to find the optimal solution. (5pts)

2) Explain how BigClaim works and compare it with AGM to show why BigClaim can scale on large networks. You need to use one example with the membership matrix and the gradient update process. (5 pts)