

## Exercise 4.3

### LDA

*Instructions:* You may discuss this assignment with other students in the class, but you must submit your own answers to the questions below. Include an honor pledge with your submission. Submit online and in PDF. This exercise is ungraded.

1. Suppose the number of topics is generated by a draw from a Poisson distribution with parameter,  $\eta$ . Show how this changes the graphical model of LDA.