Homework 4

Due 4/20/2016

- 1. (4 points): **Question 13.8**
- 2. (4 points): **Question 13.17** There is a bug in this question -P(B|X,Z) should be P(Y|X,Z) i.e., B should be replaced with Y. So your goal is to prove that P(X,Y|Z) = P(X|Z)P(Y|Z) is equivalent to each of P(X|Y,Z) = P(X|Z) and P(Y|X,Z) = P(Y|Z).
- 3. (10 points): Question 14.6 Parts a through d.
- 4. (3 points): **Question 14.14** Part **a**.
- 5. (9 points): **Question 14.15** Parts **a,b,c**.

