

Advanced Statistical Inference I
Homework 4: Multiple Random Variables
Due Date: November 30th

1. (Basic Calculation)
 - (a) Exercise 4.4.
 - (b) Exercise 4.5.
 - (c) Exercise 4.7.
2. (Check on Independence and Dependence)
 - (a) Exercise 4.9.
 - (b) Exercise 4.10.
 - (c) Exercise 4.11.
3. (Box-Muller Transformation)
 - (a) Exercise 4.20.
 - (b) Exercise 4.21.
4. (Censored Data) Exercise 4.26.
5. (Mixture and Hierarchical Modeling) Exercise 4.37.
6. (Multivariate Normal Distribution)
 - (a) Exercise 4.45.
 - (b) Exercise 4.46.
 - (c) Exercise 4.47.
7. (Group Testing) Exercise 4.56.
8. (Conditioning)
 - (a) Exercise 4.58.
 - (b) Exercise 4.59.
 - (c) Exercise 4.35.