

STA 732: Homework 2

January 17, 2026

Make sure to write your name on the homework, and hand it in at the beginning of the lecture on Thursday, January 22nd.

Choose your own adventure: For Problems 1-5, you may forego measure-theoretic contemplations (you won't be graded on making mistakes of this kind). Of course, if you want to challenge yourself and receive feedback, you are more than welcome to provide answers to highest level of rigor. If you wish to have a more challenging problem of this nature, consider making the bonus problem instead.

Problem 1 (1 point):

Exercise 1.8 of the lecture notes.

Problem 2 (1 point):

Exercise 1.9 of the lecture notes.

Problem 3 (1 point):

Exercise 1.10 of the lecture notes (you may forego measure-theoretic contemplations) OR Exercise 1.7.

Problem 4 (1 point):

Exercise 1.11 of the lecture notes (you may forego measure-theoretic contemplations) OR Exercise 1.14.

Problem 5 (1 point):

Exercise 1.12 of the lecture notes OR Exercise 1.15.

Bonus Problems (2 points:)

Exercise 1.17. If you decide to hand in this problem, please forego Exercise 1.10 as it is implied by this problem (you may hand in Exercise 1.14 instead).

Homework grade will be max 1, total points earned/5.