

Math 4740

Final Exam Study Guide

The final exam covers:

- Material from Test 1 – See the test and study guide
- Material from Test 2 – See the test and study guide
- New material – HW 5 and HW 6

Here is an outline of the new material that wasn't on test 1 or test 2:

Homework 5:

- Here you are calculating various probabilities and data for binomial random variables.
Look at problems 1, 2, 3, 4.
I would do 4 first and then 2,3 and then 1.

Homework 6:

- The main thing for this homework is being able to calculate the expected value, variance, standard deviation, and graph the probability function $p(k) = P(X=k)$.
Look at problems 1, 2, 3, 4.
- **Problems 5 and 6 are NOT on the final.** These two are there only if you want to try them. One is on Chebyshev's inequality and the other is on the geometric random variable that we didn't cover in class.