Physics 335—Thermal Physics
Homework Assignment #3
Due Wednesday, September 18, 2024, 11:40 a.m.

Ch 2: Problems 2.16, 2.17, 2.19, 2.24, 2.29, and 2.30 (20 pts. each).

Hints: For problem 2.16, N is large but the calculation is tractable if you do some algebra by hand and cancel or simplify various terms. Ultimately, you should get an expression that you can evaluation on your calculator.

Problem 2.24 can be rather long; follow the analgous calculation in the text to give you some guidance for how to proceed.

For Problem 2.30, you should just use the results of Problem 2.22. You do not need to re-derive them.