

Due date: Thursday, Feb. 22

Deadline: Tuesday, Feb. 27

S means a problem in Schroeder's text; GT means a problem in Gould & Tobochnik.

1. S 3.14

2. S 3.23

3. S 3.24 Warning: when doing the case $N=5000$, you will probably not be able to go beyond $q=160$ or so. This will not hinder you in finding the low-temperature behavior of the specific heat, which is the point of the problem.

4. S 3.25 (except f)

5. S 3.34 (except g)

Problems 3, 4, 5 count as double problems (worth 20 points each).