

Due date: Tuesday, May 1 **Deadline:** Thursday, May 3

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

1. S7.3

2. S7.8

3. S7.11

4. S7.13a,c

5. S7.19

6. S7.26a,b

7. S7.28 In part d, you should en route get the result $N \propto (1/\beta) \ln[1 + e^{\beta\mu}]$, with the proportionality constant related to the density of states.