

Physics 3180 (Thermal Physics)
spring 2006

Problem Set 9
(due Monday, March 27)

1. Problem 6.20, page 233. For part (e), you needn't check the limits (since you presumably did this in Problem 3.25), but please do compute the heat capacity and plot it as a function of T using Mathematica.
2. Problem 6.23, page 236.
3. Problem 6.28, page 237. Please use Mathematica for this problem; refer to the separate handout for examples.
4. Problem 6.31, page 240.
5. Problem 6.36, page 246.
6. Problem 6.38, page 246. Please change variables to x as in the example at the top of the page, then use Mathematica (or a sufficiently fancy calculator) to evaluate the integral numerically.
7. Problem 6.41, page 247.
8. Answer the questions on the reverse side of this sheet.

Textbook Comments

Problem Set 9

With respect to the portion of your textbook that was covered by this problem set, including the problems themselves ...

Describe at least one thing that you liked about the book. Please be as specific as you can.

Describe at least one thing that you disliked about the book, or one way in which the book could be improved. Please be as specific as you can.