Problem Set 7  3/27/05
Problems in K. Huang p. 167-168

1. Problem 7.1 (note we did part (a) in class)
2. Problem 7.2
3. Problem 7.5
4. Problem 7.6. Note: there is a typo in part (b). The final result should read
   \[ Z(\nu T) = \ln \left[ 1 + \frac{N^2}{2V} Sd^2 f(r) + \ldots \right] \frac{1}{N} \]