

# HW 2

## Chapter 2

Complete the following problems from your book.

1. Problem 4 (Poker Probability)
  2. Problem 6 (Microstates of an Einstein Solid)
  3. Problem 8 (Energy Transfer Between Einstein Solids)
  4. Problem 13 (Fun With Logarithms)
  5. Problem 17 (Einstein Solids in the “Low Temperature Limit”)
  6. Problem 26<sup>†</sup> (The Ideal Gas in 2D)
  7. Problem 27 (Spatial Configurations of the Ideal Gas)
  8. Problem 30 (Entropy of Interacting Einstein Solids)
  9. Problem 34 ( $\Delta S$  for an isothermal process)
  10. Problem 37 (Entropy of Mixing Ideal Gases)
- †: Bonus problem worth 50% of a normal problem