University of California Riverside

PHYS 133, Statistical Mechanics, Spring 2019

Problem set #3

Due May 24, 2019 @ 5:00pm

- 1. **Read and review.** Sethna Ch. 3 and Ch. 5.
- 2. Connecting Two Macroscopic Systems. Sethna Problem 6, Chapter 3.
- 3. Microcanonical Energy Fluctuations. Sethna Problem 8, Chapter 3.
- 4. Life and the Heat Death of the Universe. Sethna Problem 1, Chapter 5.
- 5. **Pressure-Volume Diagram.** Sethna Problem 5, Chapter 5.