Midterm 1 extra practice problems
These problems are meant to provide opportunities for supplemental practice in addition to the homework problems, quiz problems, and examples from the lectures/textbook. Numerical answers are provided to check your solutions.

- Koretsky 2.24
  - Answers:
    - b) $W = -940$ J
    - c) $Q = 940$ J
- Koretsky 2.41
  - Answers:
    - 500 °C, 1200 kPa, 0.167 m
- Koretsky 2.49
  - Answers:
    - $Q = 228$ kJ
- Koretsky 3.22
  - Answers:
    - For Problem 2.28, $\Delta S_{univ} = 1.24$ J/K
    - For Problem 2.29, $\Delta S_{univ} = 0.004$ J/K
- Koretsky 3.41
  - Answers:
    - a) 650 K
    - b) -55.1 kJ/s $= -55.1$ kW
    - c) -78.7 kW
    - d) 819 K
- Koretsky 3.44
  - Answers:
    - 51.2 J/K