

PHY 405 - Energy & Sustainability  
Fall 2021

**Assigned:** September 13

**Due:** October 8

**Problem Set #2**

This problem set will review foundational concepts from introductory physics (chapters 1-3) and thermodynamics (chapters 5, 6, 8, and 9). This problem set and the related discussions are meant to be a review rather than that will support the subsequent technical discussions of this course. As such, should you encounter any difficulty in doing these problems, this indicates an area where some additional brushing up may be necessary.

**Chapter 1 Discussion/Investigative Questions:** 1.2, 1.6

**Chapter 1 Problems:** 1.3, 1.8

**Chapter 2 Discussion/Investigative Questions:** 2.4

**Chapter 2 Problems:** 2.2, 2.11

**Chapter 3 Discussion/Investigative Questions:** 3.3

**Chapter 3 Problems:** 3.7

**Chapter 5 Discussion/Investigative Questions:** -

**Chapter 5 Problems:** 5.3, 5.8, 5.11

**Chapter 6 Discussion/Investigative Questions:** 6.1, 6.2

**Chapter 6 Problems:** 6.1, 6.8

**Chapter 8 Discussion/Investigative Questions:** 8.3

**Chapter 8 Problems:** 8.7

**Chapter 9 Discussion/Investigative Questions:** 9.3

**Chapter 9 Problems:** 9.16