

**ASTR 5110 Atomic and Molecular Processes Fall 2024. Problem Set 1. Due  
Wed 4 Sep.**

Do the following problems from the notes. Most of the problems this week are thought problems rather than mathematical problems. You don't necessarily have to say very much, but I am looking for a clear exposition that shows you understand what's going on.

**6.1.** (4 points) Short.

**8.2.** (4 points) Short.

**8.3.** (6 points) Somewhat longer.

**10.1.** (4 points) Shortish.

**13.2.** (4 points) Interesting.

**13.3.** (4 points) Short.

**14.1.** (4 points) Short.