

Homework 3, due Oct. 18, 2007

**Note: the answers to some of these questions are in the back of the book
- so show all your work!**

1. problem **2-8** in the book.
2. problem **3-5** in the book (the equation of state is $(P + av^{-2})(v - b) = RT$, eqn. (2.5) in the book).
3. problem **4-1, part b only** in the book.
4. problem **4-10** in the book.
5. problem **4-15** in the book.
6. problem **5.6** in the book.
7. problem **5.14** in the book.
8. problem **5.15** in the book.