Homework Assignment #9

This assignment will not be graded, due to lack of time and grading manpower at the end of the quarter. However, you are none-the-less responsible for this material, which will be covered on the final exam. Solutions will be posted on ERES as soon as they are available.

The final exam will be comprehensive, with emphasis on the material not covered on the two midterm exams.

1. Questions 28 and 34 of Chapter 14.
4. Problem 90 of Chapter 14. Venturi. (c. 12.7 cm)
5. Problem 94 of Chapter 14. Pumping oil. (74.2 atm, 4.51×10^5 W)
6. Questions 23 and 24 of Chapter 15. In Question 24, the cream is initially at room temperature.
8. Chapter 15, Exercise 24 part (a) only, plus Exercise 25. Thermal expansion.
13. Problem 106 of Chapter 15. Temperature of the sun. (6.97×10^7 W/m^2, 5920 K)