Homework 10, due November 22

Self check (not to hand in, answers are in the back of the book):

Section 6.1: 15.
Section 6.2: 27, 37, 41.
Section 6.3: 1, 17.

To hand in:

Section 6.1: 16, 32.
Section 6.2: 28, 38, 42.
Section 6.3: 2, 18.

More problems (to hand in)

1. I have a large urn shaped like a parabola. The urn is one meter tall. The diameter at the top is half a meter.
   
   a. How many liters of water does the urn hold? One liter is 1000cm$^3$.
   
   b. What is the level of the water surface when it contains 50 liters of water?