1) Problem 29, Chapter 6.
2) Problem 32, Chapter 6.
3) Problem 33, Chapter 6.
4) Problem 34, Chapter 6.
5) The period of a macroscopic pendulum made with a mass of 10 g suspended from a massless cord 50 cm long is 1.42 s.
   a. Compute the ground-state (zero-point) energy.
   b. If the pendulum is set into motion so that the mass raises 0.1 mm above its equilibrium position, what will be the quantum number $n$ of the system?
   c. What is the frequency of the motion in part b?

Supplementary Problems:

   Nada.