Chem 1410: HW # 7, assigned 11/1 Due 11/11

- 1. Q10.6
- 2. Q10.13
- 3. P10.5
- 4. P10.15
- 5. Consider the following, modified particle-in-the-box problem. The potential is infinite for x < 0 an x > a, but sloped and equal to -ax in the interior of the box. Calculate the energy of the ground state using as the trial function

$$\psi = c_1 \sin(\pi x/a) + c_2 \sin(2\pi x/a).$$