

### **Homework assignment 5**

*Due October 13, either at the start of class or in my physics department mailbox at noon.*

1. Do book problem 6.17
2. Do book problem 6.29
3. Do book problem 6.35
4. Do book problem 6.49
5. For a step potential, show that  $R = \frac{U_0^2}{16E^2}$  for  $U_0 \ll E$ , using Taylor expansions.