

PHY 251 Fall 2009: homework problem set 6, due in the PHY 251 drop box in room A-129 by noon on Friday, Oct. 23.

1. Serway 5.20
2. Serway 5.25
3. Serway 5.26.
4. Serway 5.32
5. Serway 6.8
6. Serway 6.9
7. Serway 6.10
8. Serway 6.12
9. Serway 6.17. For this problem, recall that  $\int |\psi|^2 = 1$  over all space; the integral of  $|\psi|^2$  over a subset of allowed positions tells you the probability of being within that subset of allowed positions.
10. Serway 6.23
11. Serway 6.32