

PHYSICS 4455 — QUANTUM MECHANICS
Problem Set 4 — due 9/22/2005, in class.

1. **Becoming more familiar with operators.**
Liboff Problem 3.3
Liboff Problem 3.16
2. **... and in particular, the displacement operator:**
Liboff Problem 3.4
Liboff Problem 3.17
3. **Why is the Schrödinger equation – unlike the equations for classical waves – just first order in d/dt ?**
Liboff Problem 3.20

You should read:

Liboff, Chapter 3. Get started on Chapter 4.