

171.304
Quantum Mechanics II.

PROBLEM SET # 1
February 2, 2009
(due 02/11/08)

1. Townsend 9.4
2. Townsend 9.5
3. Townsend 9.7
4. Townsend 9.8
5. Show that if an operator \hat{A} commutes with two components of the angular momentum (e.g. \hat{J}_x and \hat{J}_y), it also commutes with the third component. (Consequently, \hat{A} is invariant under rotations.)
6. Townsend 9.14