449 Homework #3

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<< "http://www.physics.wisc.edu/~tgwalker/448defs.m"
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1) Townsend 10.2

2) Townsend 10.7

3) Townsend 10.13

4) Townsend 10.19

5) What is the degeneracy and parity of the 17/2 $\hbar\omega$ energy levels of the 3d isotropic harmonic oscillator? Calculate the wavefunction of the $l = 5$ state.

6) Townsend 12.2

7) Townsend 12.4

8) Townsend 12.6