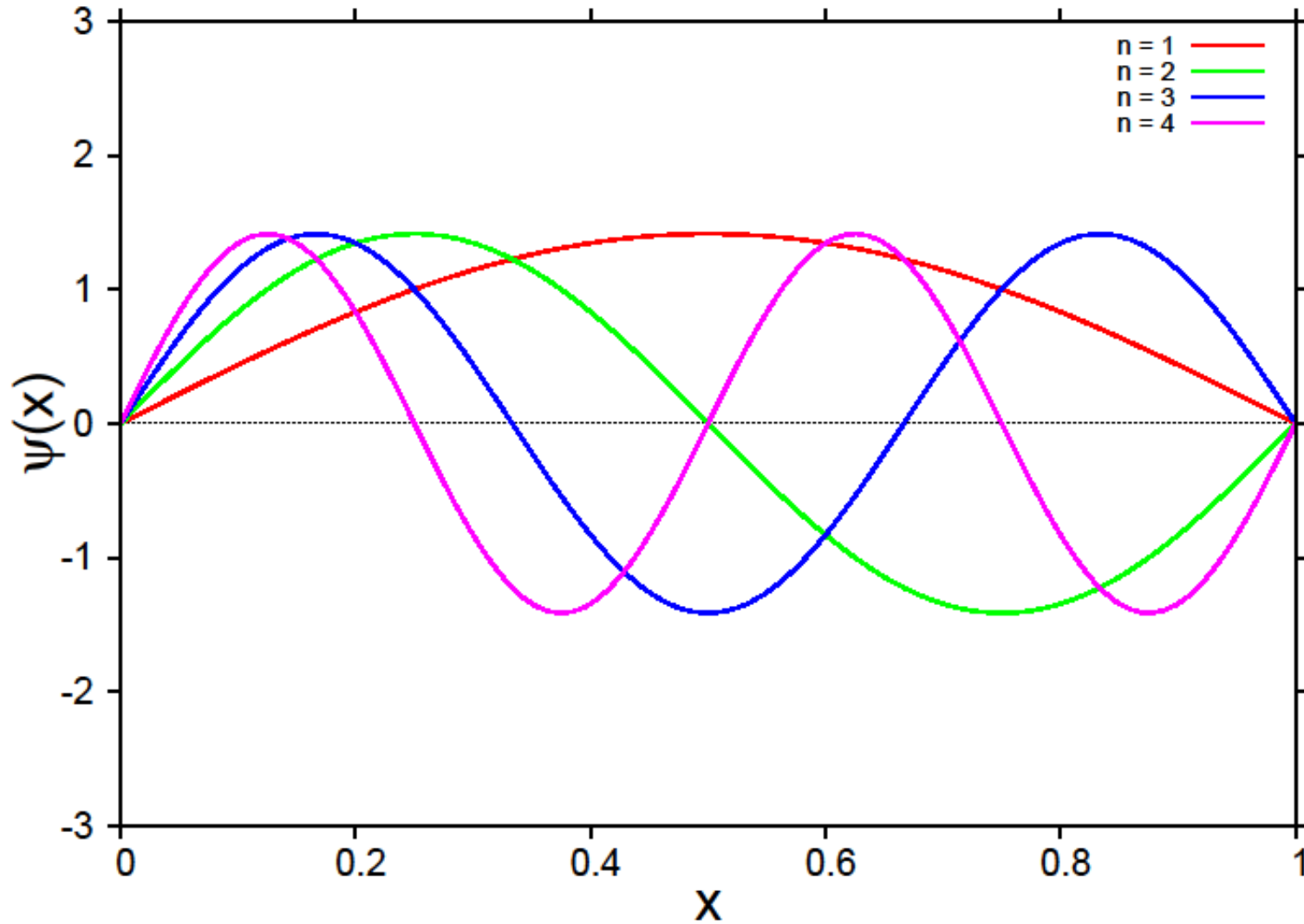
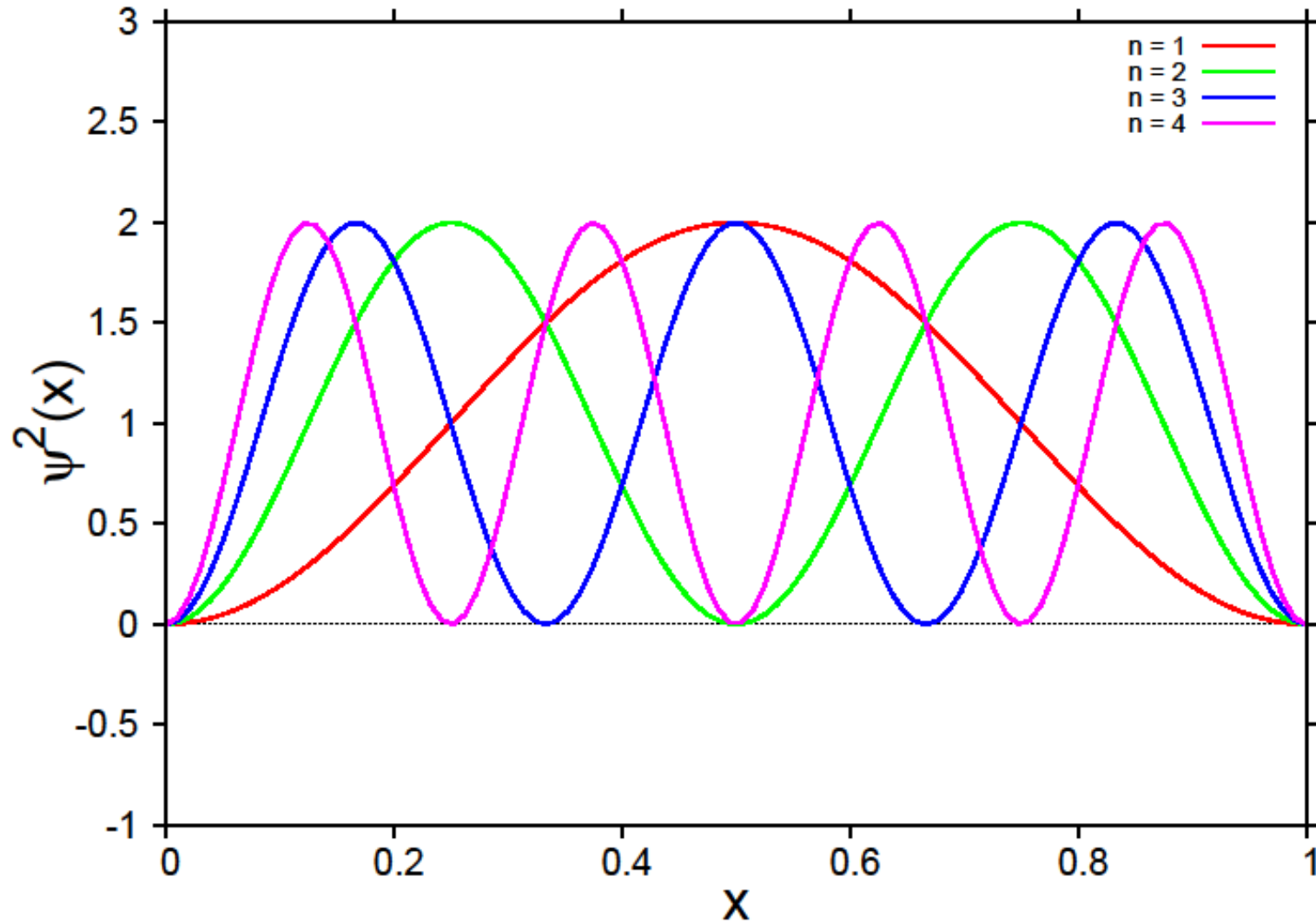


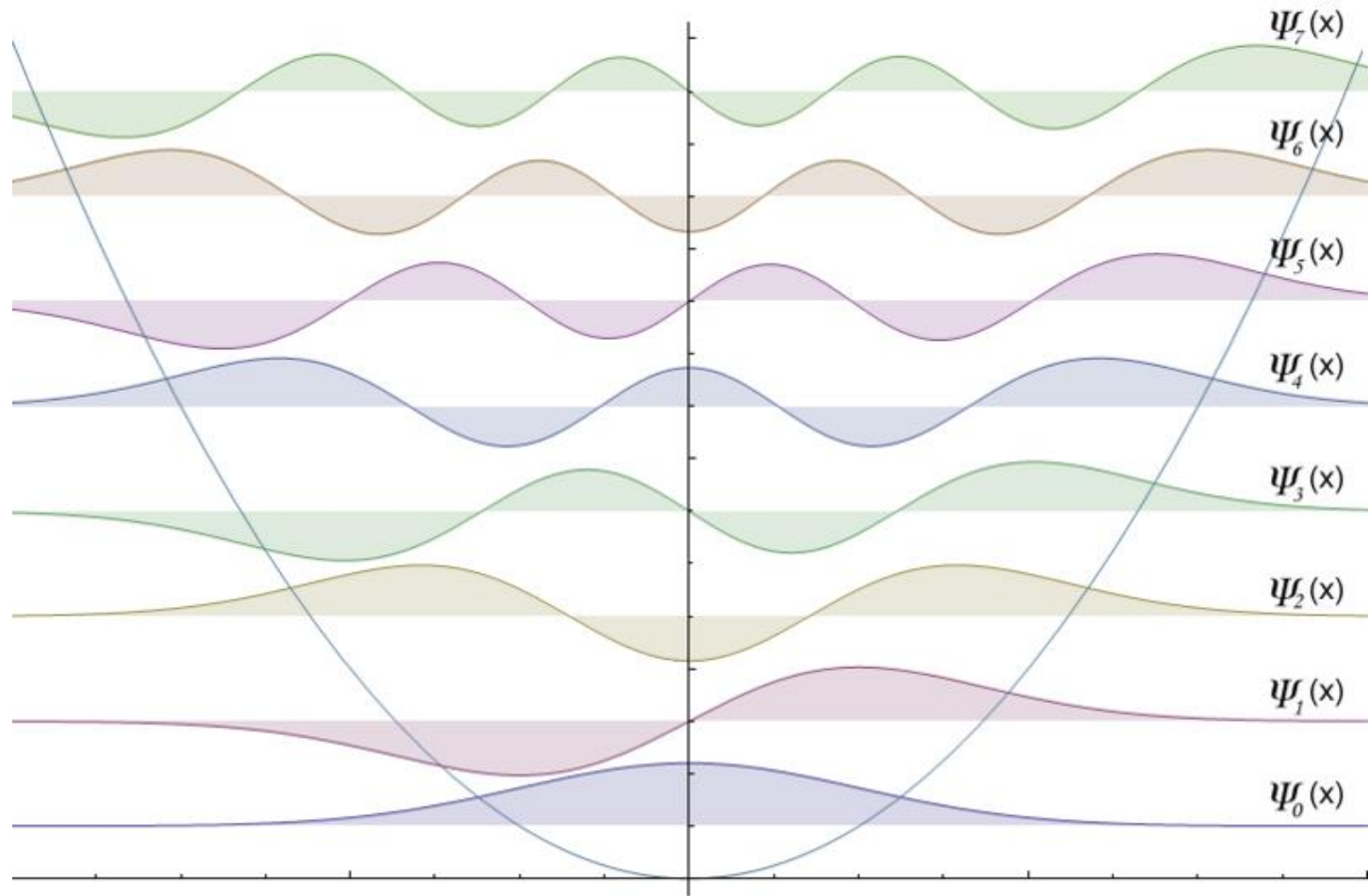
Particle in a Box Solutions



Particle in a Box Solutions

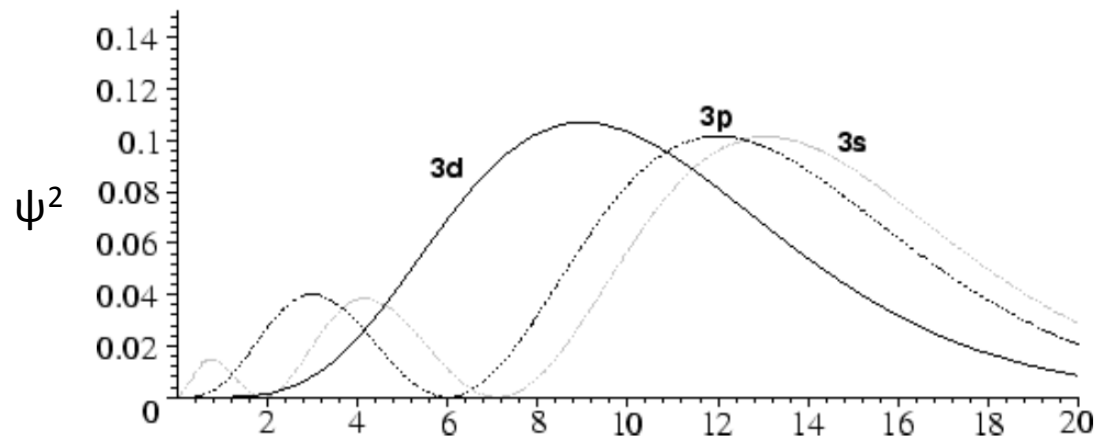
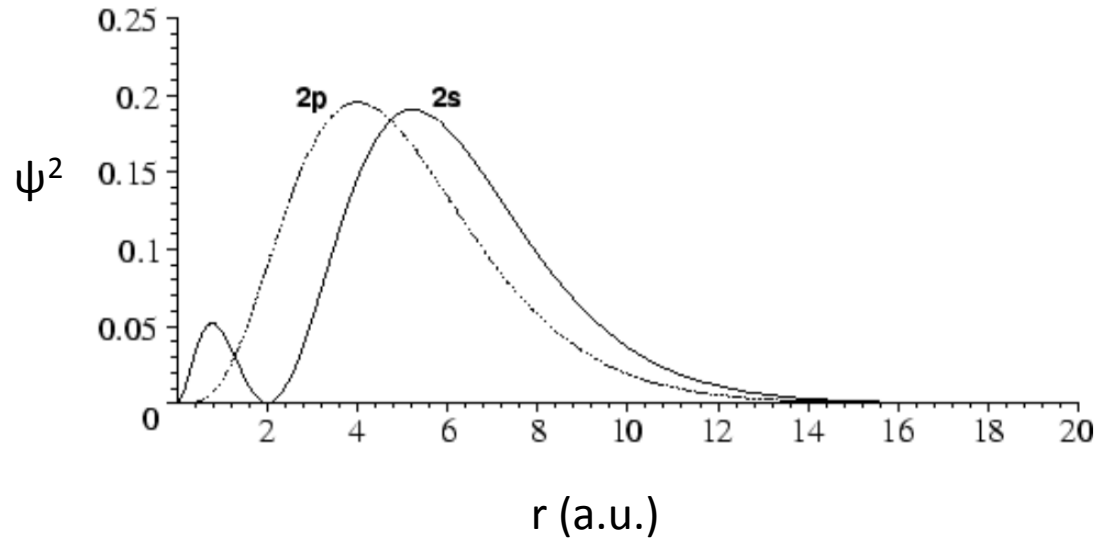


Harmonic Oscillator Wavefunctions



From "Quantum Harmonic Oscillator," *Wikipedia*
http://en.wikipedia.org/wiki/Quantum_harmonic_oscillator

e^- Distance in Hydrogen Atom

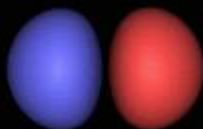


Atomic Orbitals

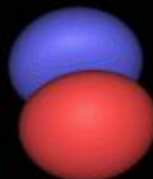
Remember the previous slide!
The size of ns > the size of np



s



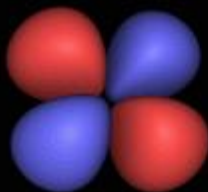
p_x



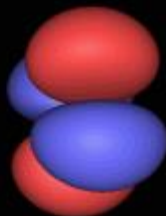
p_y



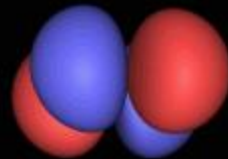
p_z



d_{xy}



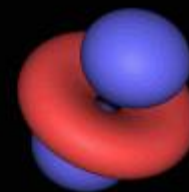
d_{xz}



d_{yz}



$d_{x^2 - y^2}$



d_{z^2}