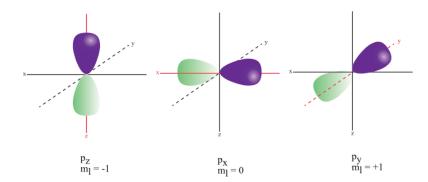
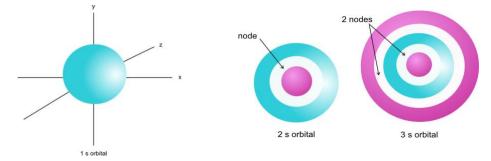
Orbitals

- 1. How many orbitals are in a d subshell? <u>5</u>
- 2. Sketch the three p orbitals.



3. Sketch the 1s, 2s, and 3s orbitals.



4. A g subshell has how many orbitals?

A g subshell would have 9 orbitals

5. What is the maximum number of electrons that can occupy a 4f orbital?

Any orbital can hold a maximum of 2 electrons

6. What is the maximum number of electrons that can occupy a 5d subshell?

The 5d subshell can hold a maximum of 10 electrons.

What is the total number of orbitals in an atom of Hg?
39 orbitals