Electron configuration 1

7. How many orbitals are in the following sublevels?

1. 3p sublevel
2. 2s sublevel
3. 4p sublevel
4. 3d sublevel
5. 4f sublevel

8. Write the electron configuration for each atom

1. Carbon
2. Argon
3. Nickel

9. Write an electron configuration for each atom. How many unpaired electrons does each atom have?

1. Boron
2. Silicon

12. Use the “Quantum Model of an atom pdf- Aufbau diagram #2” on the class website to arrange the following sublevels in order of decreasing energy:

2p, 4s, 3s, 3d, and 3p