- 1. Write the complete electron configuration for the following elements:
 - a. Bromine
 - b. Strontium
 - c. Antimony
 - d. Rhenium
 - e. Terbium
 - f. Titanium
- 2. How many electrons are in orbitals related to the third energy level of the sulfur atom?
- 3. How many electrons occupy p orbitals in the chlorine atom?
- 4. What element has the following ground state electron configuration? $1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^24d^{10}5p^1$
- 5. What element has the following ground state electron configuration? $1s^22s^22p^63s^23p^64s^23d^{10}4p^65s^24d^{10}5p^66s^2$
- 6. State the Aufbau Principle in your own words.
- 7. Apply the Pauli Exclusion Principle, Aufbau Principle, and Hund's Rule draw the arrow diagrams for the following elements:
 - a. Silicon
 - b. Fluorine
 - c. Calcium
 - d. Krypton