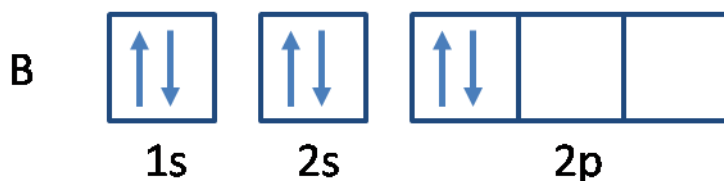
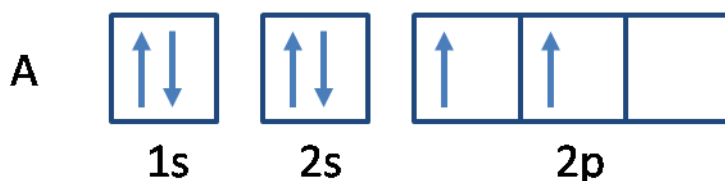


Electron Configuration Homework

1. Which of the following electron notation diagrams is correct?



Justify your choice with regard to Hund's rule

2. Complete the orbital diagrams for the following elements:

a. Lithium $1s^2 2s^1$



b. Sodium: $1s^2 2s^2 2p^6 3s^1$



c. Silicon: $1s^2 2s^2 2p^6 3s^2 3p^2$



d. Neon: $1s^2 2s^2 2p^6$



e. Titanium: $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^2$



f. Phosphorous: $1s^2 2s^2 2p^6 3s^2 3p^3$



Electron Configuration Homework

3. For each of the following orbital diagrams, name the element being described.

