Electron Configuration Practice -

*In the space below, write the expanded electron configurations of the following elements:*

1) sodium

2) potassium

3) chlorine

4) bromine

5) oxygen

In the space below, write the abbreviated electron configurations of the following elements:

1. manganese

7) silver

8) nitrogen

9) sulfur

10) argon

In the space below, write the orbital notation of the following elements:

1. manganese
2. gallium

1. nitrogen
2. sulfur
3. argon

Determine what elements are denoted by the following electron configurations:

1. 1s22s22p63s23p4
2. 1s22s22p63s23p64s23d104p65s1
3. [Kr] 5s24d105p3
4. [Xe] 6s24f145d6
5. [Rn] 7s25f11

Determine which of the following electron configurations are not valid:

1. 1s22s22p63s23p64s24d104p5
2. 1s22s22p63s33d5
3. [Ra] 7s25f8
4. [Kr] 5s24d105p5
5. [Xe]