**HomeWork 18**

**Due Wednesday Nov 30**

**Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_/6**

**1. Provide the correct , abbreviated electron configuration for:**

**a) Mg [Ne] 3s2**

**b) S [Ne] 3s2 3p4**

**c) Al [Ne] 3s23p1**

**2. For the transition elements below, provide the correct abbreviated, d-switched and preferred filled/half-filled/empty electronic configurations:**

**a) Cr [Ar] 3d5 4s1**

**b) Fe3+ [Ar] 3d54s0**

**c) V [Ar] 3d54s0**