**Chem 1013: mini-quiz #8: Lewis modeling Monday 11 Feb 6 pts**

Your name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **How many total valence electrons must be considered for the compounds listed below**

**Total valence electrons**

1. **CO \_10\_\_ 4+6 =10**
2. **CH4 \_\_8\_\_ 4+4\*1=8**
3. **O2 \_\_12\_\_ 2\*6=12**
4. **N2 \_\_10\_\_ 2\*5=10**
5. **Draw the best Lewis bond arrangement for N2 using the template below. Make sure to include all the lone pairs as well as the number of bonds (2 pts)**

**:N≡N:**