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SCH 4C Bonding Quiz

- 1. For each of the following pairs of elements:
- a) determine if each pair of elements will form ionic or covalent bonds (consider whether that atoms are metallic or ionic)
- b) if ionic:
 - draw in extra atoms if necessary
 - add electrons to show the neutral atoms electron configuration
 - add arrows to show how the electron will move
 - draw the resulting ions, complete with empty or full valence shell, brackets and charge
 - chemical formula
 - be sure to use different symbols for the electrons of different elements
- a) covalent:
 - draw a good diagram with extra atoms as needed to show how sharing in covalent bonds works
 - add circles to show the satisfied octets or duets in the case of helium like elements
 - state the type of covalent bonds (i.e. single, double and how many)
 - show the chemical formula

H with S

Cs with O

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K	С	A	т

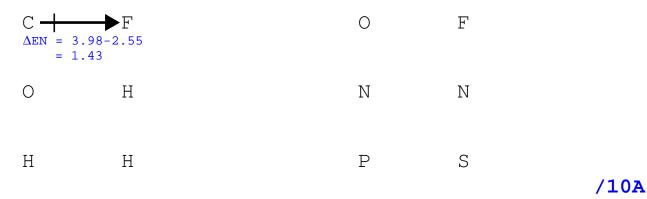
N with Br

Ga with O

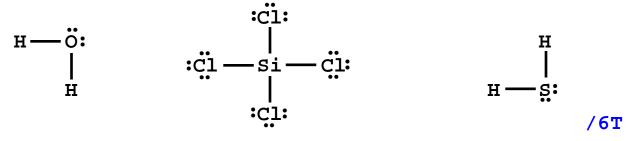
C with O

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2. For each of the following pairs of atoms, write the electronegativity values below each atom and the draw in the correct bond polarization



3. For each of the following stick structures, add the correct bond polarizations, determine the net molecular polarization and add δ^+ and δ^- an appropriate. If the bond polarizations cancel out, simply write "no net molecular polarization, therefore non-polar"



4. Draw a lewis dot diagram for the covalent bonding you would expect between nitrogen and fluorine. Then draw the corresponding stick structure and complete as in question #3.

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