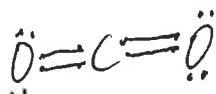


Name: \_\_\_\_\_

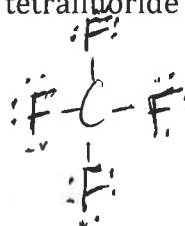
### Covalent Compounds: Naming and Drawing Lewis Structures

For each of the following compounds, write the formula and draw a Lewis structure using dots to represent unshared pairs of electrons and a line to show a pair of shared electrons:

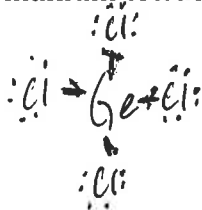
a. carbon dioxide  $CO_2$



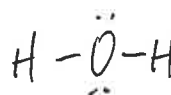
f. carbon tetrafluoride  $CF_4$



b. germanium tetrachloride  $GeCl_4$



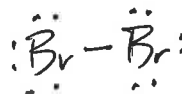
g. dihydrogen monoxide  $H_2O$



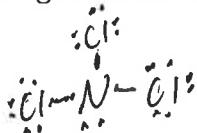
c. phosphorus triiodide  $PI_3$



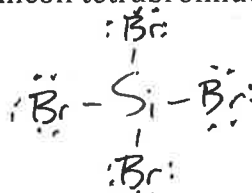
h. bromine  $Br_2$



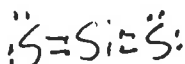
d. nitrogen trichloride  $NCl_3$



i. silicon tetrabromide  $SiBr_4$



e. silicon disulfide  $SiS_2$

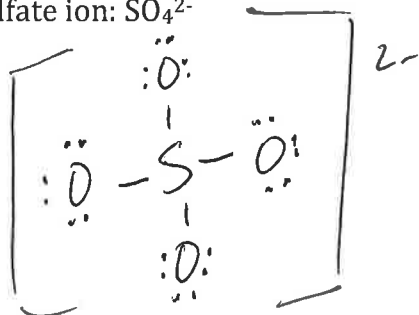


j. carbon ditelluride  $CTe_2$



**Challenge!** Can you draw a Lewis structure to represent the following covalently bound polyatomic ions?

Sulfate ion:  $SO_4^{2-}$



Hydroxide ion:  $OH^-$

