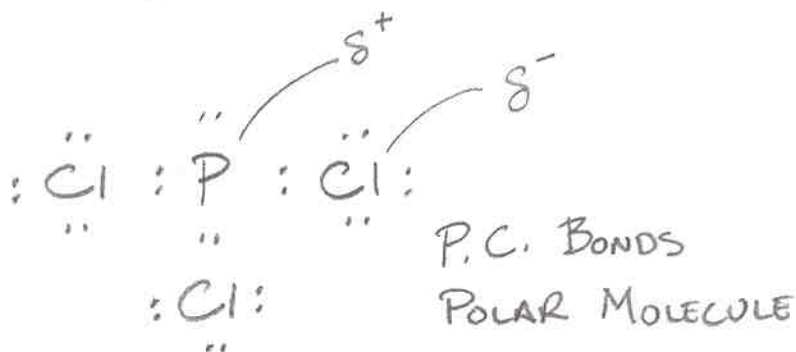


1) Determine if the molecule is non-polar covalent, polar covalent, or ionic. Then draw the Lewis structure. Then determine if the molecule is Polar (if applicable):

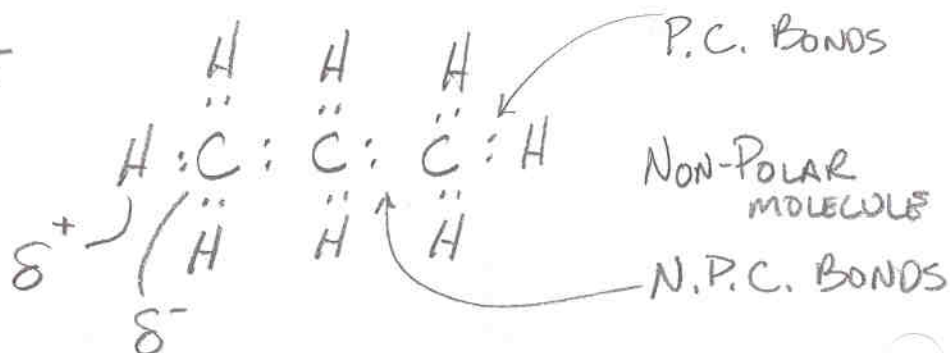
a)  $\text{PCl}_3$

$$5e^- + 7e^-(3) = 26e^-$$



b)  ~~$\text{CCl}_4$~~   $\text{C}_3\text{H}_8$

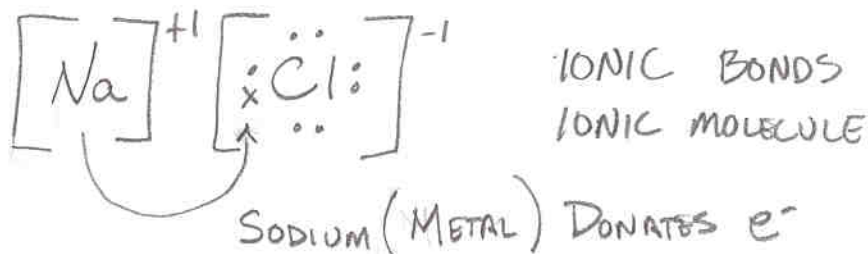
$$4e^-(3) + 1e^-(8) = 20e^-$$



c)  $\text{NaCl}$

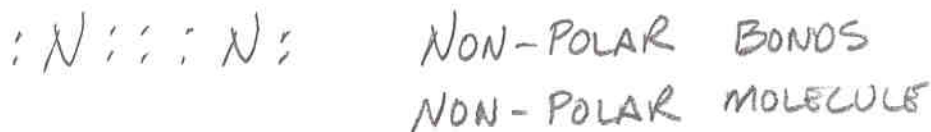
$$1e^- + 7e^- = 8e^-$$

NO QUAD BONDS!



d)  ~~$\text{O}_2$~~   $\text{N}_2$

$$5e^-(2) = 10e^-$$



e)  $\text{HCN}$

$$1e^- + 4e^- + 5e^- = 10e^-$$

