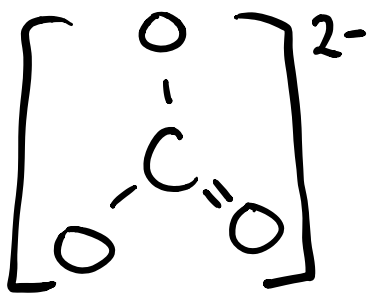
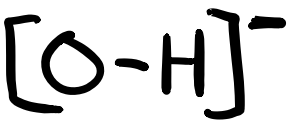
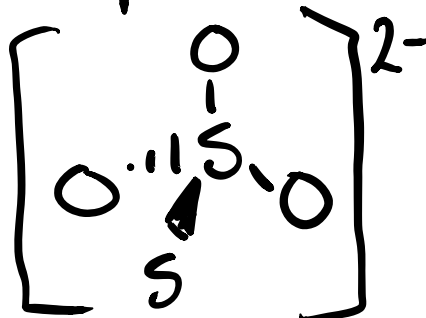
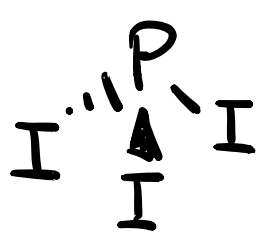
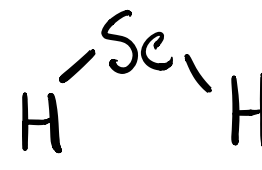


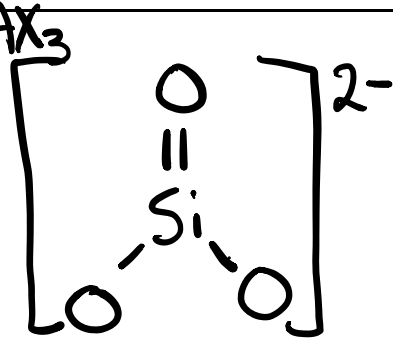
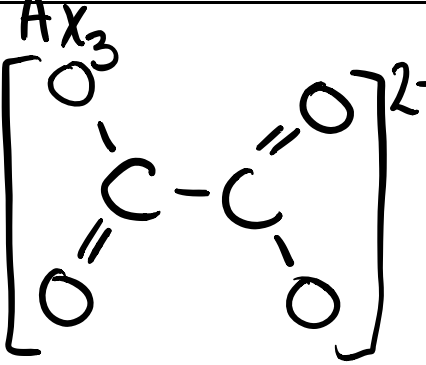
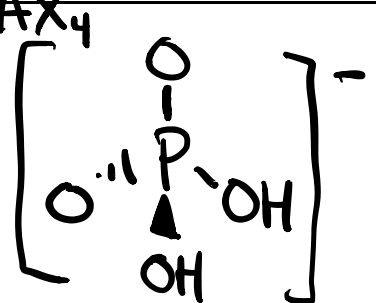
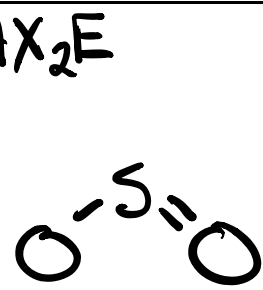
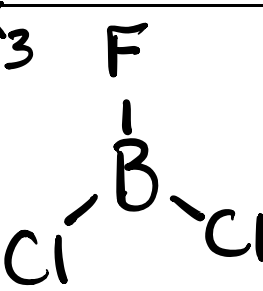
Chemistry 20 - Unit 1 - Stereochemistry and Polarity – Extra Practice

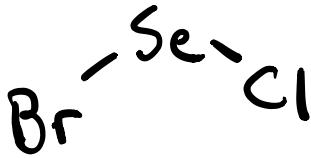
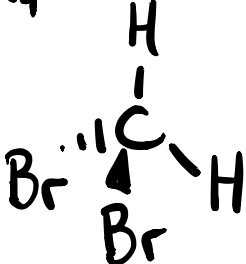
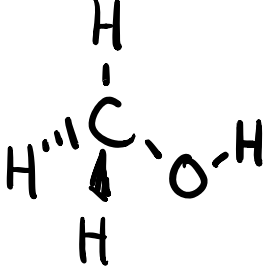
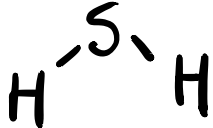

Name: _____

Complete all of the following problems to the best of your ability. Ensure that you show all of your work as appropriate

Chemical Name	Lewis Diagram	Stereochemical Formula and Diagram	Polar or Non-polar?
Carbonate ion CO_3^{2-}		AX_3 	Non-polar
Hydroxide ion OH^-		AXE_3 	Polar
Thiosulfate ion $[\text{S}_2\text{O}_3]^{2-}$		AX_4 	Polar

Phosphorus triiodide PI_3		AX_3E 	Polar
Hydrogen selenide H_2Se		AX_2E_2 	Non-Polar
Hypochlorite ion ClO^-		$\text{AXE}_3 - \text{Linear}$ $[\text{Cl}-\text{O}]^-$	Non-Polar
Thiocyanate ion SCN		AX_2 $[\text{S}-\text{C}\equiv\text{N}]^-$	Non-Polar

<p>Silicate ion</p> SiO_3^{2-}		<p>AX₃</p> 	<p>Non-Polar</p>
<p>Oxalate ion</p> $\text{C}_2\text{O}_4^{2-}$		<p>AX₃</p> 	<p>Non-Polar</p>
<p>Dihydrogen phosphate ion</p> H_2PO_4^-		<p>AX₄</p> 	<p>Polar</p>
<p>Sulfur dioxide</p> SO_2		<p>AX₂E</p> 	<p>Polar</p>
<p>BFCI₂</p>		<p>AX₃</p> 	<p>Polar</p>

SeClBr		AX_2E_2 	Polar
CH ₂ Br ₂		AX_4 	Polar
CH ₃ OH		AX_4 	Polar
H ₂ S		AX_2E_2 	Non Polar
H ₃ O ⁺		AX_3E 	Polar