

Be sure to show all work, use the correct number of significant figures, circle final answers and use correct units in all problems.

1. Complete the following table: (12 points)

Molecule	Lewis Structure	Electron Pair Geometry & Molecular Geometry	Bond Angle(s)	Polar or Nonpolar?
ICl₂Br				
SeBr₄				
IF₅				

2. Complete the following table: (6 points)

Molecule	Lewis Structure	Bond Order	Which structure has stronger bonds?	Which structure has longer bonds?	Does it exhibit resonance?
PO₂⁻¹					
PO₂⁺¹					

3. Arrange the following bonds in order of increasing polarity: Na-Br, Br-Br, N-Br, As-Br. (2 pts)