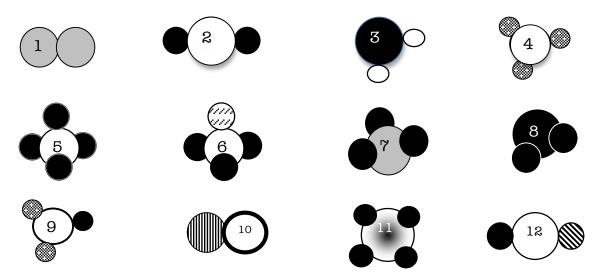
_Date: _____ Section: ____

Geometry of Covalent Compounds

Part A: Name these shapes. (Ignore shading for now.)



Part B: Draw Lewis models for the following compounds. Then determine their shape from their models.

- 1. magnesium chloride
- 2. magnesium sulfide
- 3. ammonia
- 4. boron trichloride
- 5. beryllium astatide
- 6. hydrogen sulfide
 - 7. lithium sulfide
 - 8. methane (CH₄)
 - 9. chloroform (CHCl₃)
 - 10. phosphorus tribromide
- Part C: For all compounds in Parts A-B, determine whether the molecule is POLAR or NONPOLAR. For Part A, each different shading represents a different element, and you can assume that the electronegativity difference between all elements is between 0.5-1.67.