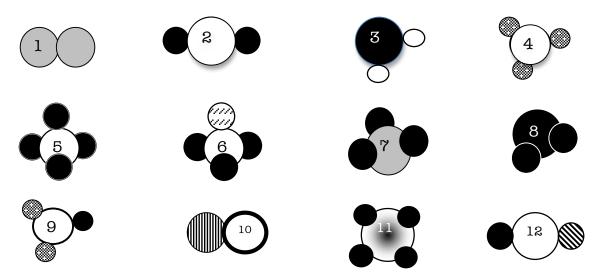
\_Date: \_\_\_\_\_ Section: \_\_\_\_

## 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 (CH<sub>4</sub>)
  - 9. chloroform (CHCl<sub>3</sub>)
  - 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.