

## Molecular Shape

Name: \_\_\_\_\_

Directions: For each of the following,

- Draw the electron dot (Lewis) diagram of the molecule.
- Draw the structural diagram for the molecule.
- Determine the shape of the molecule.

1) hydrosulfuric acid ( $\text{H}_2\text{S}$ )

5) nitrogen tribromide

2) carbon tetraiodide

6) silicon dioxide

3) hydrofluoric acid (HF)

7)  $\text{CH}_2\text{F}_2$

4)  $\text{CSCl}_2$

8) selenium dibromide

Part 2: For each of the following;

a) Draw the Lewis diagram for the following compounds.

b) Draw the structural diagram for the molecule.

c) Determine the shape of the molecule.

1) water

5) carbon disulfide

2) selenium monoxide

6) silicon tetraiodide

3) oxygen difluoride

7) phosphorous trichloride

4) nitrogen trichloride

8) iodine monofluoride