

Name Key Period \_\_\_\_\_ Date \_\_\_\_\_

## Molecular Geometry

For each of the following molecules, draw the Lewis Diagram and deduce the notation from this (i.e. AX<sub>4</sub>E<sub>2</sub>). Then, identify the correct the molecular shape.

MOLECULE	LEWIS DIAGRAM	Notation	SHAPE
1. BeF <sub>2</sub>		AX <sub>2</sub>	<p>linear</p>
2. AsH <sub>3</sub>		AX <sub>3</sub> E	<p>trigonal pyramidal</p>
3. NO <sub>2</sub> <sup>-</sup>		AX <sub>2</sub> E	<p>bent</p>
4. SiH <sub>4</sub>		AX <sub>4</sub>	<p>tetrahedral</p>

MOLECULE	LEWIS DIAGRAM	Notation	SHAPE
5. SeH <sub>2</sub>		AX <sub>2</sub> E <sub>2</sub>	 bent
6. XeF <sub>4</sub>		AX <sub>4</sub> E <sub>2</sub>	 Square planar
7. PF <sub>5</sub>		AX <sub>5</sub>	 trigonal bipyramidal
8. SeF <sub>6</sub>		AX <sub>6</sub>	 Octahedral