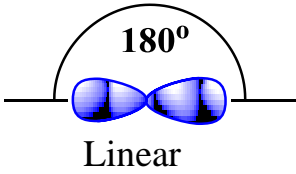
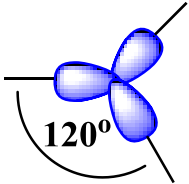
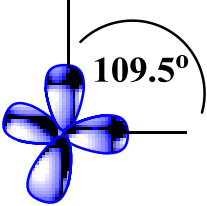
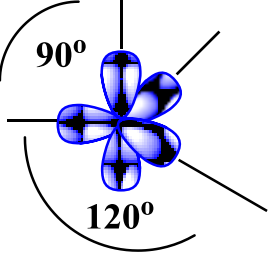
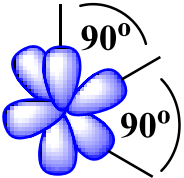


Hybrid Orbitals and Geometry			
Atomic Orbitals Used	Hybrid Orbitals Formed	Geometry	Example Compound
s,p	Two sp orbitals	 <p>Linear</p>	CO <sub>2</sub>
s,p,p	Three sp <sup>2</sup> orbitals	 <p>Trigonal Planar</p>	SO <sub>3</sub>
s,p,p,p	Four sp <sup>3</sup> orbitals	 <p>Tetrahedral</p>	GeCl <sub>4</sub>
s,p,p,p,d	Five dsp <sup>3</sup> orbitals	 <p>Trigonal Bipyramidal</p>	PCl <sub>5</sub>
s,p,p,p,d,d	Six d <sup>2</sup> sp <sup>3</sup> orbitals	 <p>Octahedral</p>	Mo(CO) <sub>6</sub>