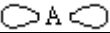


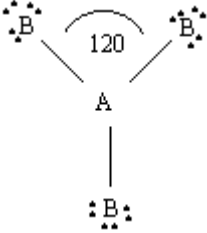
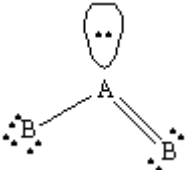

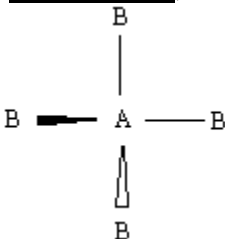
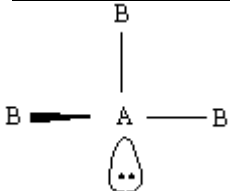
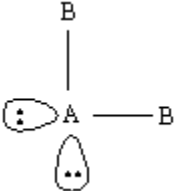


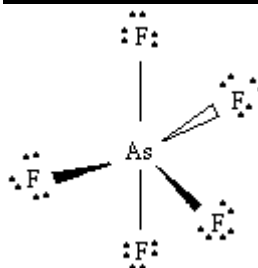
Electronic Geometry and Molecular Geometry

Electronic Geometry	Molecular Geometry
2 Electronic Domains: sp hybrid Linear 	-2 Bonding Orbitals <u>Linear</u> 
3 Electronic Domains: sp ² hybrid Trigonal Planar 	-3 Bonding Orbitals <u>Trigonal Planar</u>  -2 Bonding & 1 Lone Pair Orbital <u>Bent</u> , 120 deg, actually a little less 
4 Electronic Domains: sp ³ hybrid Tetrahedral 	-4 Bonding Orbitals <u>Tetrahedral</u> , 109.5 deg  -3 Bonding, 1 Lone Pair Orbital <u>Trigonal Pyramidal</u> , actually 107 deg  -2 Bonding, 2 Lone Pair Orbitals <u>Bent</u> , actually, 104.5 deg 

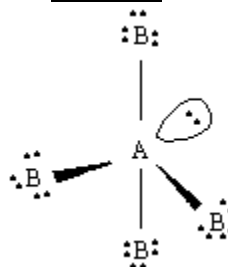
5 Electronic Domains:
 sp^3d hybrid
Trigonal Bipyramidal



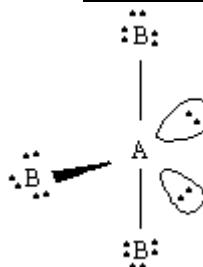
-5 Bonding Orbitals
Trigonal Bipyramidal



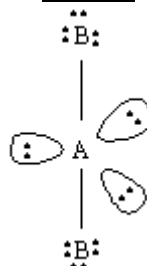
-4 Bonding, 1 Non Bonding Orbital
See Saw



-3 Bonding, 2 Non Bonding Orbitals
T shaped

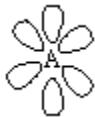


-2 Bonding, 3 Non Bonding Orbitals
Linear



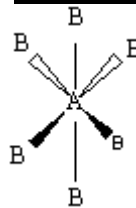
6 Electronic Domains:
 sp^3d^2 hybrid orbitals

Octahedral



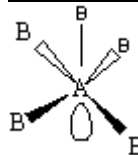
-6 Bonding Orbitals

Octahedral



-5 Bonding, 1 Non Bonding Orbitals

Square Pyramidal



-4 Bonding, 2 Non Bonding Orbitals

Square Planar

