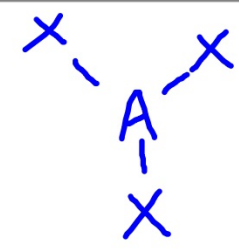
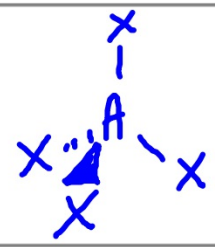
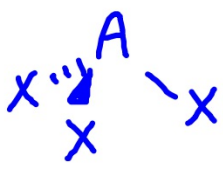
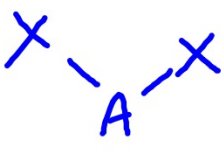


Molecular Shapes

Bonding Regions
↓
Regions
↓
Lone Pairs

Valence Shell Electron Pair Repulsion Theory (VSEPR)

# of Total e ⁻ Pairs	# Shared e ⁻ Pairs	# Unshared e ⁻ Pairs	Shape Name	Picture	Examples
2	2	0	Linear	X—A—X	CO ₂ , Cl ₂ , SiO ₂
3	3	0	Trigonal Planar		BF ₃ , CH ₂ O

4	4	0	Tetrahedral		CH ₄ , CBr ₄
4	3	1	Trigonal Pyramidal		NH ₃ , PCl ₃
4	2	2	Bent		SCl ₂ , H ₂ O