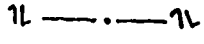
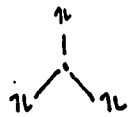
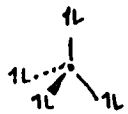
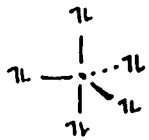
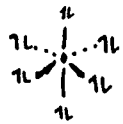
Valence Shell Electron Pair Replusion Theory (VSEPR)

Number of Electron Regions	Electronic Geometry of the Central Atom	Drawing of Electronic Regions	(Shapes) Molecular Geometries (# of lone pairs)	Molecular Class	Bond Angles
1	"linear"		"linear"		--------
2	linear		linear	AX_2	180°
3	trigonal planar		trigonal planar	AX_3	120°
			bent (1)	AX_2E	<120°
4	tetrahedral		tetrahedral	AX_4	109.5°
			trigonal pyramidal (1)	AX_3E	<109.5°
			bent (2)	AX_2E_2	«109.5°
5	trigonal bipyramidal		trigonal bipyramidal	AX_5	90°,120°,180°
			seesaw (1)	AX_4E	<90°,<120°,<180°
			T-shaped (2)	AX_3E_2	<90°,<180°
			linear (3)	AX_2E_3	180°
6	octahedral		octahedral	AX_6	90°,180°
			square pyramidal (1)	AX_5E	<90°,<180°
			square planar (2)	AX_4E_2	-90°,180°
			T-shaped (3)	AX_3E_3	<90°,<180°
			linear (4)	AX_2E_4	180°