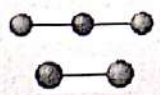
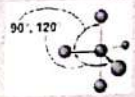
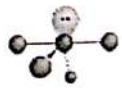
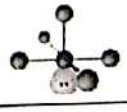
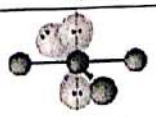
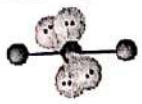
Electron Domains	Electron Geometry	Bond Angle(s)	Hybridization	# of Bonded Atoms Around Center Atom	Molecular Geometry
2	Linear	180°	sp	2	Linear *Also just 2 atoms:* 
3	Trigonal Planar	120°	sp^2	3	Trigonal planar 
				2	Bent (120°) 
4	Tetrahedral	109.5°	sp^3	4	Tetrahedral 
				3	Trigonal Pyramidal 
				2	Bent (109.5°) 
5	Trigonal Bipyramidal **Must have expanded octet**	90° AND 120° *(120° around equator and 90° from equator to the poles)*	dsp^3	5	Trigonal Bipyramidal 
				4	"Sawhorse" or "See-Saw" 
				3	T-Shaped 
				2	Linear 
6	Octahedral **Must have expanded octet**	90°	d^2sp^3	6	Octahedral 
				5	Square Pyramidal 
				4	Square Planar 
				3	T-Shaped 
				2	Linear 

Molecular Geometry Worksheet: VSEPR Theory, Orbital Hybridization, and Molecule Polarity

Correlation Table

Electron Domains	Electron-Domain Geometry of Atom	Predicted Bond Angle(s)	Orbital Hybridization of Atom	Bonding Domains	Nonbonding Domains	Molecular Geometry of Atom
2	Linear	180°	sp	2	0	Linear
3	Trigonal planar	120°	sp^2	3	0	Trigonal planar
				2	1	Bent
4	Tetrahedral	109.5°	sp^3	4	0	Tetrahedral
				3	1	Trigonal pyramidal
				2	2	Bent
5 (expanded octet)	Trigonal bipyramidal	90° axial, 120° equatorial	sp^3d	5	0	Trigonal bipyramidal
				4	1	Seesaw
				3	2	T-shaped
				2	3	Linear
6 (expanded octet)	Octahedral	90°	sp^3d^2	6	0	Octahedral
				5	1	Square pyramidal
				4	2	Square planar

Polar Molecule Guide