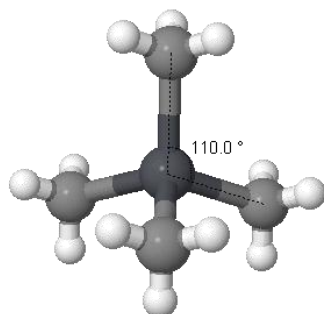


Answers

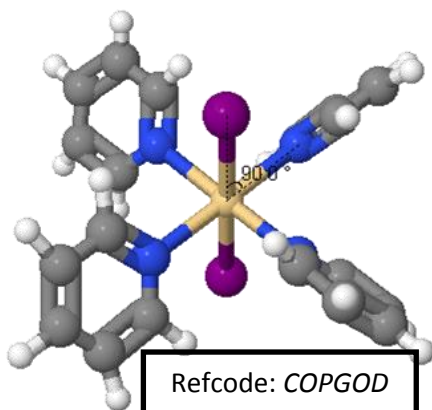
1.



Refcode: VADRAU

[Pb(CH₃)₄]	
Central Atom	Lead (Pb)
Valence Electrons	4
4 [C] atoms	4
No charge on [Pb]	0
Total	8
Divide by 2	4
4 Electron Pairs	Tetrahedral

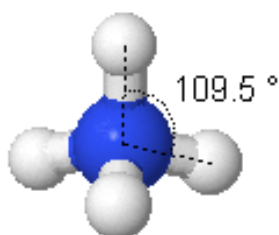
2.



Refcode: COPGOD

[CdN₄I₂(C₅H₅)₄]	
Central Atom	Cadmium (Cd)
Valence Electrons	6
2 [I] & 4 [N] atoms	6
No charge on [Cd]	0
Total	12
Divide by 2	6
6 Electron Pairs	Octahedral

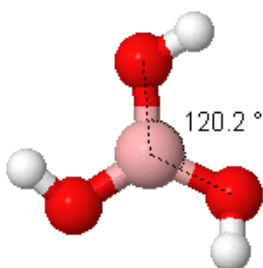
3.



Refcode: ACARBM01

[NH₄]⁺	
Central Atom	Nitrogen (N)
Valence Electrons	5
4 [H] atoms	4
Positive charge on [N]	Take 1 electron off
Total	8
Divide by 2	4
4 Electron Pairs	Tetrahedral

4.

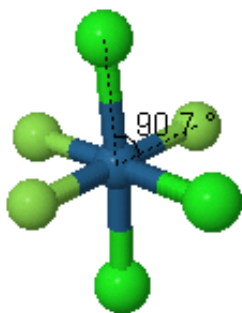


Refcode: JAGREP

[B(OH)₃]	
Central Atom	Boron (B)
Valence Electrons	3
3 [O] atoms	3
No charge on [B]	0
Total	6
Divide by 2	3
3 Electron Pairs	Trigonal Planar

I3- Using VSEPR to Predict Shapes of Molecules: Answers

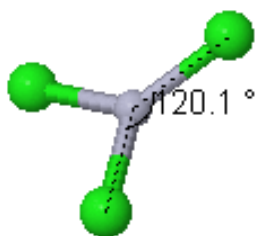
5.



Refcode: YUHROI

[OsCl₃F₃]²⁻	
Central Atom	Osmium (Os)
Valence Electrons	4
3 [Cl & F] atoms	6
Negative charge on [Os] (2-)	2
Total	12
Divide by 2	6
6 Electron Pairs	Octahedral

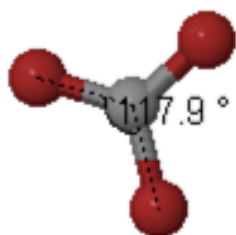
6.



Refcode: KUSMAM

[HgCl₃]⁻	
Central Atom	Mercury (Hg)
Valence Electrons	2
3 [Cl] atoms	3
Negative charge on [Hg]	1
Total	6
Divide by 2	3
3 Electron Pairs	Trigonal Planar

7.



Refcode: IYUVAZ

[CBr₃]⁺	
Central Atom	Carbon (C)
Valence Electrons	4
3 [Br] atoms	3
Positive charge on [Br]	-1
Total	6
Divide by 2	3
3 Electron Pairs	Trigonal Planar