



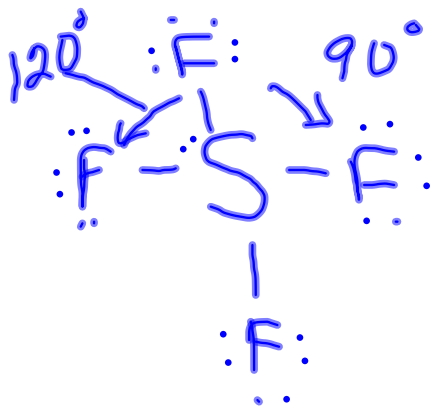
Lewis
hybrid

geometries
ideal & real
bond <

σ
 π } bonds



$$6 + 4(7) = 34$$



trigonal
bipyramidal



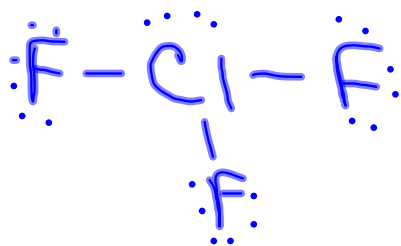
seesaw or
distorted tetrah.

120°, 90°

σ bonds 4
π bond 0



$$7 + 3(7) = 28$$



trigonal
bipyramidal

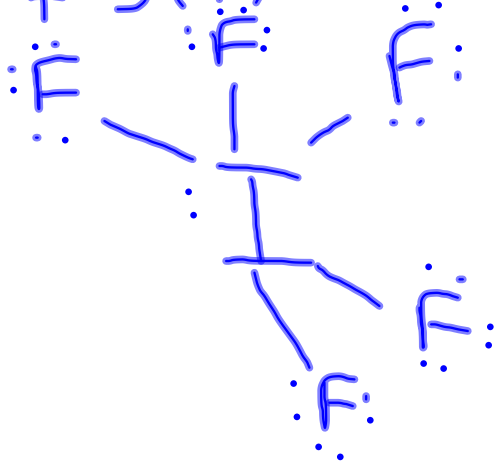
sp^3d $90^\circ, 120^\circ$

T-shape

σ bonds	3
π bonds	0



$7 + 5(7) = 42$



Octahedral



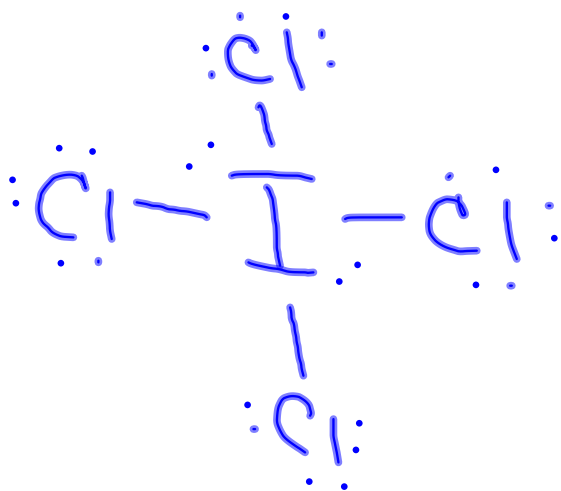
Square pyramidal

σ 5

π 0



$$7 + 4(7) + 1 = 36$$

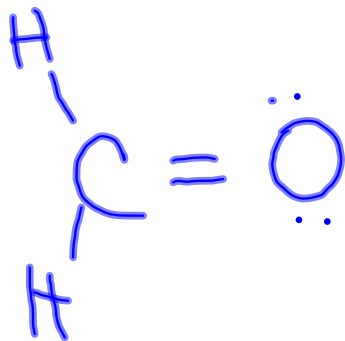


Octahedral
 90° sp^3d^2

Square planar
 σ 4
 π 0



$$2(1) + 4 + 6 = 12$$



ideal
+
real
↗
trigonal
planar
120°
sp²
3
1



$$6 + 2(7) = 20$$



$$\begin{array}{cc} \ominus & 2 \\ \uparrow & 0 \end{array}$$

tetrahedral

$$109^\circ$$

vent - real
(105°)



