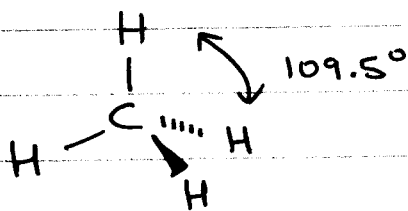


# SHAPES OF MOLECULES

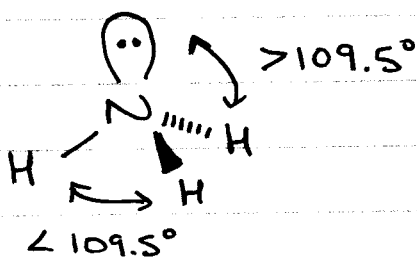
17

a)  $\text{CH}_4$



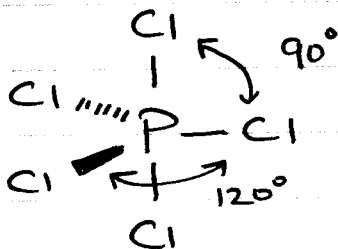
TETRAHEDRAL

b)  $\text{NH}_3$



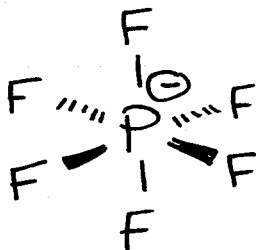
PYRAMIDAL

c)  $\text{PCl}_5$



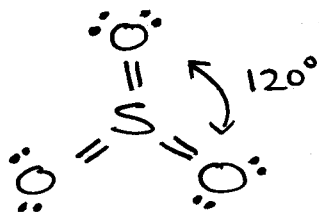
TRIGONAL  
BIPYRAMIDAL

d)  $\text{PF}_6^-$

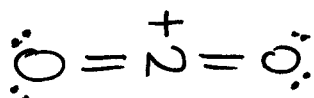
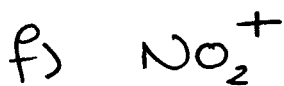


OCTAHEDRAL

e)  $\text{SO}_3$



TRIGONAL  
PLANAR



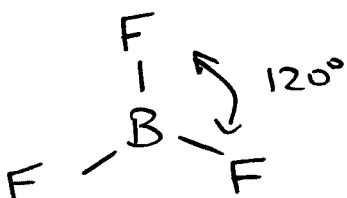
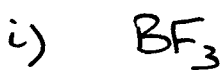
LINEAR ( $180^\circ$ )



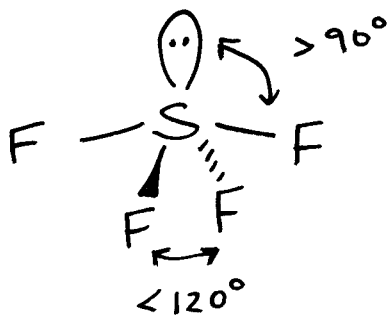
TRIGONAL  
PLANAR  
GEOMETRY AT N  
 $\Rightarrow$  BENT



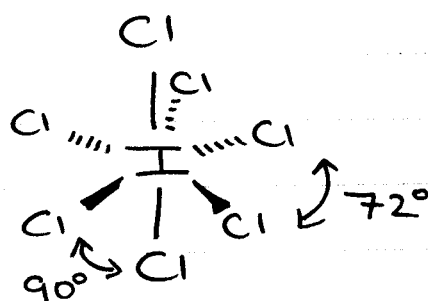
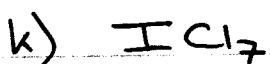
TETRAHEDRAL  
GEOMETRY AT P  
 $\Rightarrow$  PYRAMIDAL



TRIGONAL  
PLANAR



TRIGONAL  
BIPYRAMIDAL  
AT S  
 $\Rightarrow$  FUNNY SHAPED  
MOLECULE

PENTAGONAL  
BIPYRAMIDALTETRAHEDRAL AT O,  
 $\Rightarrow$  PYRAMIDAL

( APPARENTLY I DON'T KNOW MY ALPHABET,  
k and l above, are listed as h and i  
in the questions )