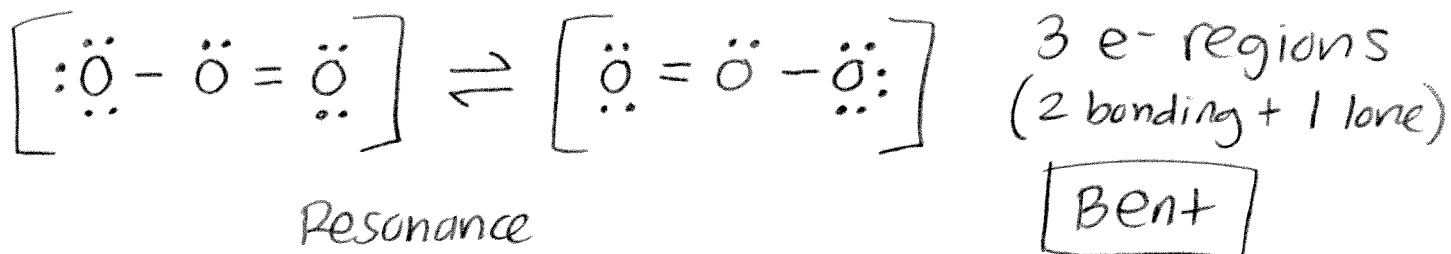
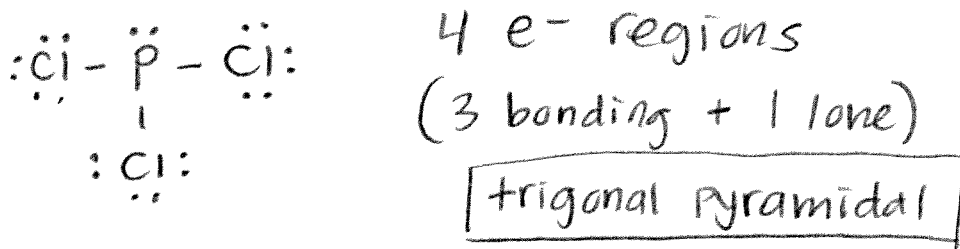


# Lewis and Molecular Geometry Practice

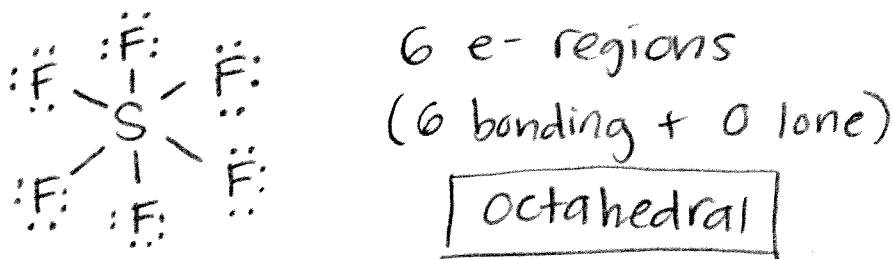
①  $O_3 = 3(6) = 18 e^-$



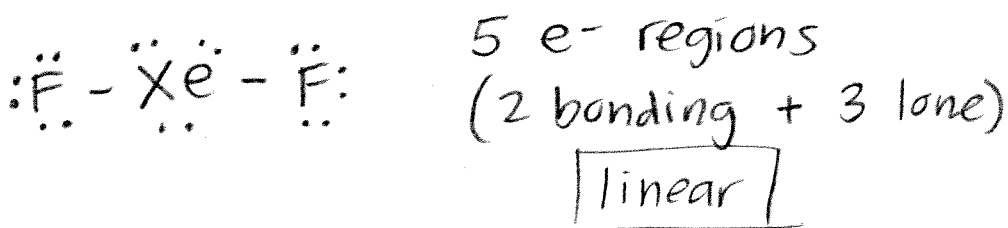
②  $PCl_3 = 5 + 3(7) = 26 e^-$



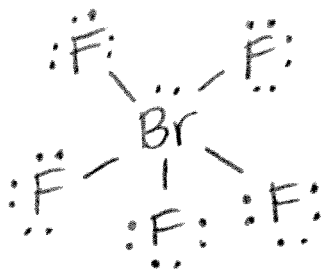
③  $SF_6 = 6 + 6(7) = 48 e^-$



④  $XeF_2 = 8 + 2(7) = 22 e^-$



⑦  $\text{BrF}_5 = 7 + 5(7) = 42 e^-$



6  $e^-$  regions  
(5 bonding + 1 lone)

square pyramidal

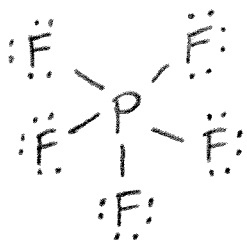
⑧  $\text{I}_3^- = 3(7) + 1 = 22 e^-$



5  $e^-$  regions  
(2 bonding + 3 lone)

linear

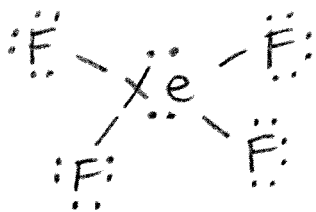
⑤  $\text{PF}_5 = 5 + 5(7) = 40 e^-$



5  $e^-$  regions  
(5 bonding + 0 lone)

trigonal bipyramidal

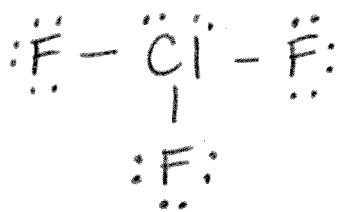
④  $\text{XeF}_4 = 8 + 4(7) = 36 e^-$



6  $e^-$  regions  
(4 bonding + 2 lone)

square planar

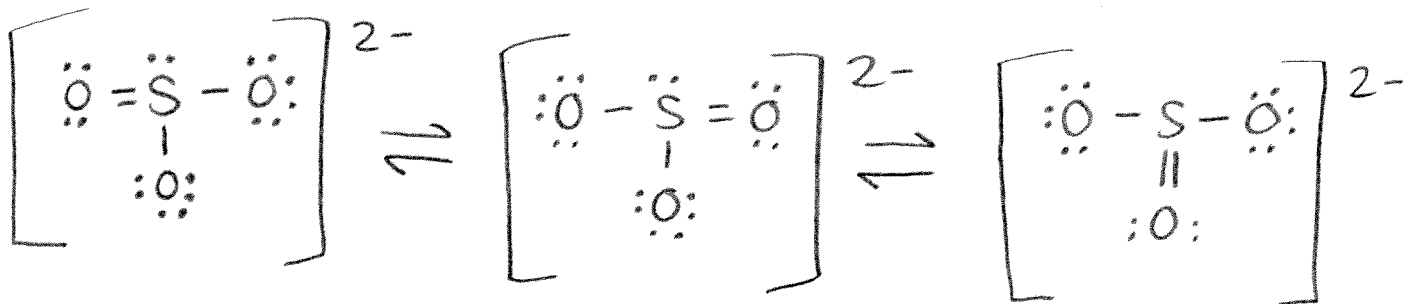
⑨  $\text{ClF}_3 = 7 + 3(7) = 28 e^-$



5 e<sup>-</sup> regions  
(3 bonding + 2 lone)

+ - shape

⑩  $\text{SO}_3^{2-} = 6 + 3(6) + 2 = 26 e^-$



Resonance!

4 e<sup>-</sup> regions  
(3 bonding + 1 lone)

trigonal pyramidal