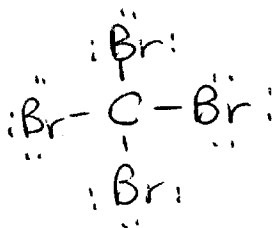
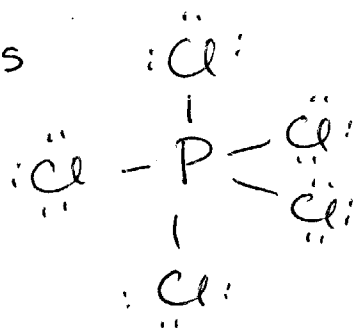


Chem 1A Ch. 8 HW answers

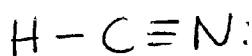
1. a. CBr_4



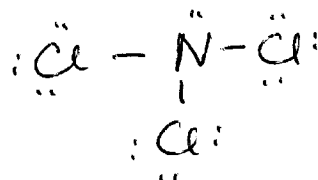
b. PCl_5



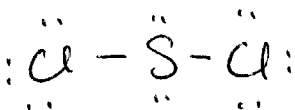
c. HCN



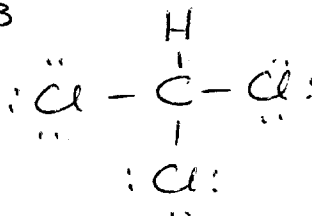
d. NCl_3



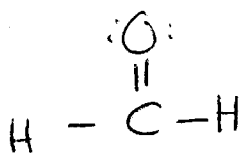
e. SCl_2



f. CHCl_3



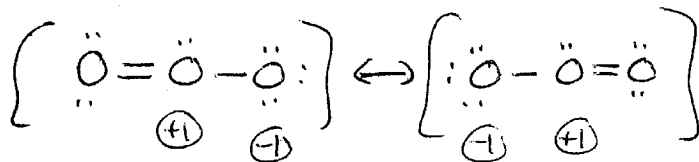
g. CH_2O



h.

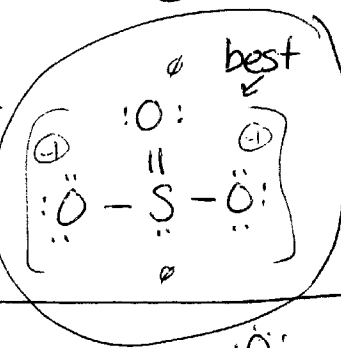
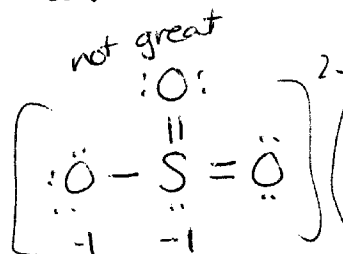
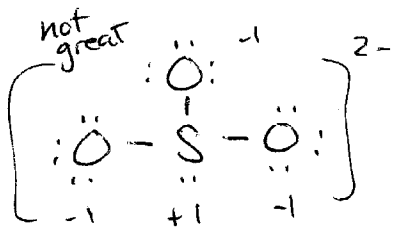


$$3(6) = 18 \text{ ve}^-$$

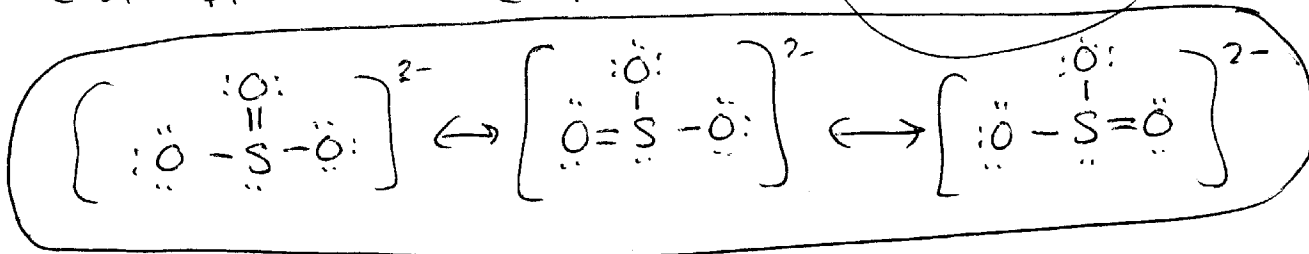


i. SO_3^{2-}

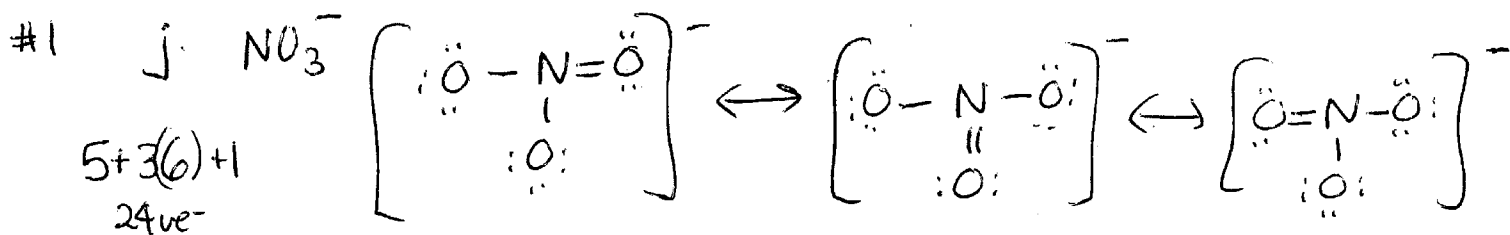
$$4(6) + 2 = 26 \text{ ve}^-$$



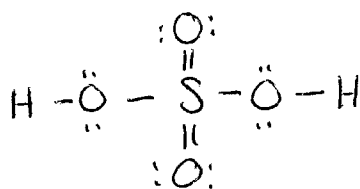
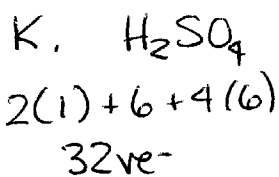
has equivalent resonance structures



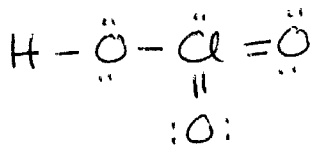
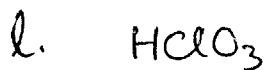
final answer



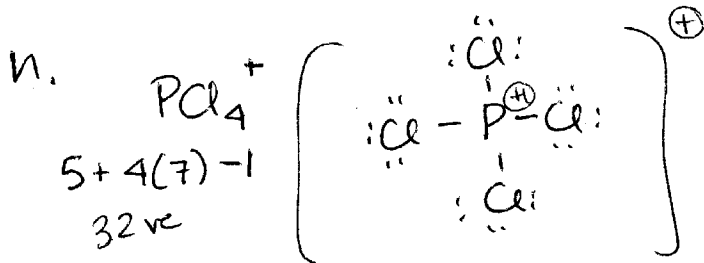
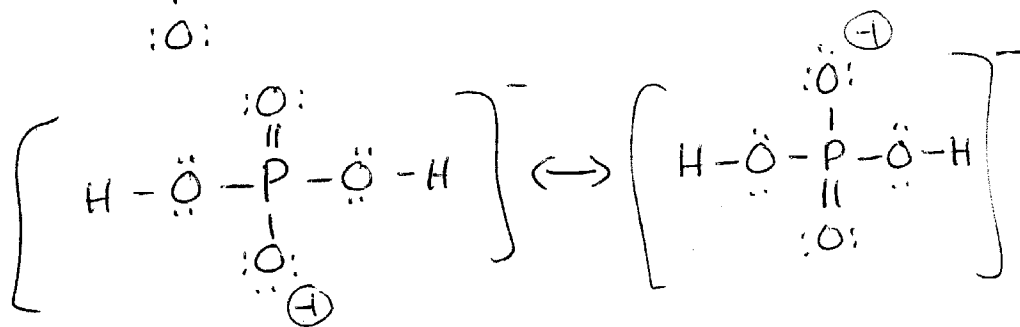
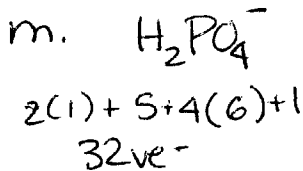
3 equivalent resonance structures.
Can't minimize FC.



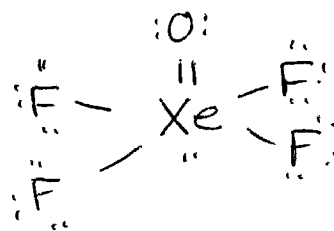
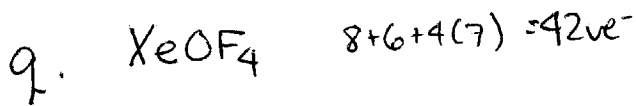
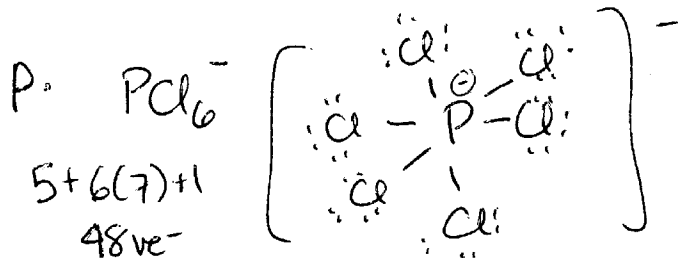
this structure minimizes FC.



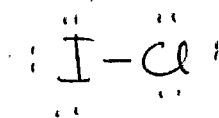
minimizes FC



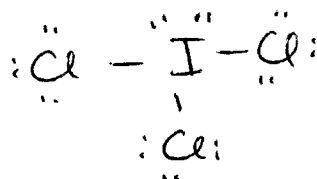
oops!
o. already did it
(part b)



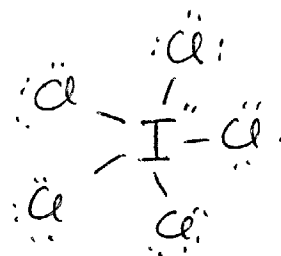
#1 r. ICl $2(7) = 14 \text{ ve}^-$



s. ICl_3 $7 + 3(7) = 28 \text{ ve}^-$

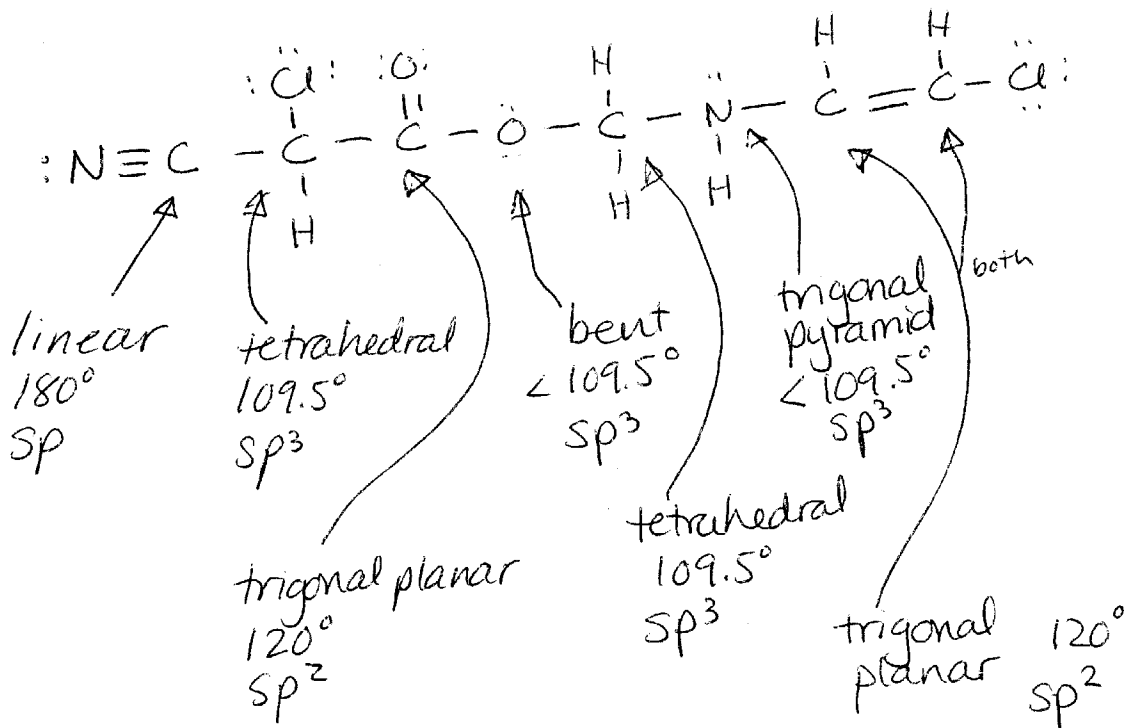


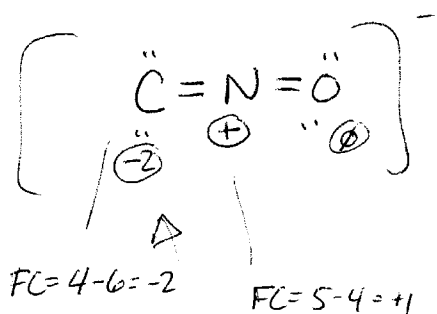
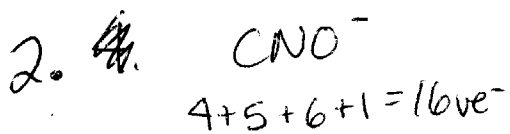
t. ICl_5 $7 + 5(7) = 42 \text{ ve}^-$



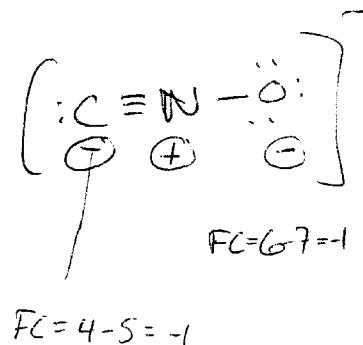
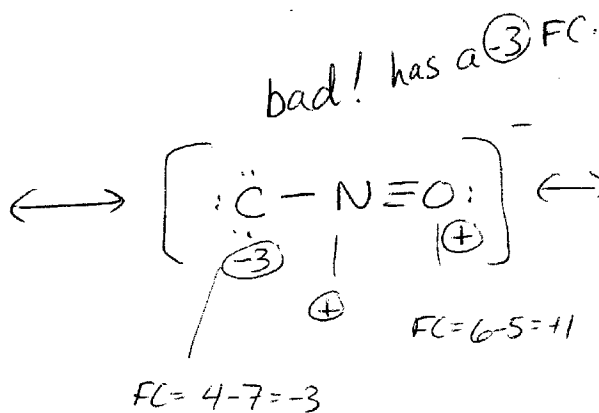
for #2, see next page.

3.





has a -2 FC



this one seems the best. The FC's are all +1 or -1 (low magnitude)

