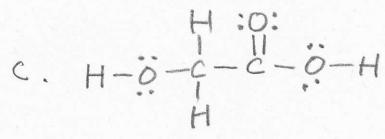
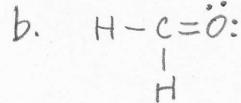
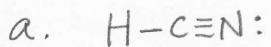
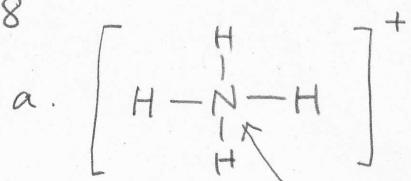


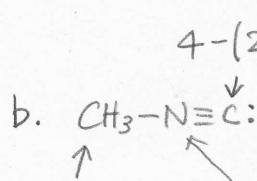
1.7



1.8

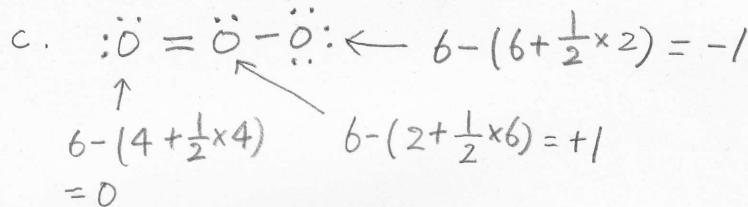


$$5 - (0 + \frac{1}{2} \times 8) = +1$$

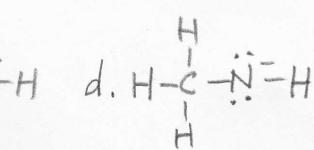
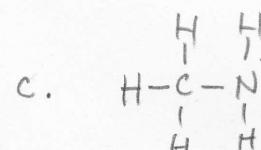
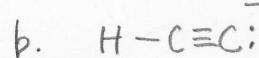
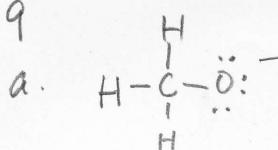


$$4 - (0 + \frac{1}{2} \times 8) = 0$$

$$5 - (0 + \frac{1}{2} \times 8) = +1$$



1.9



1.12

a. resonance

A \neq B

b. neither

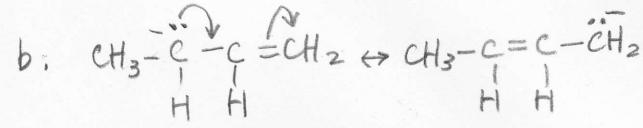
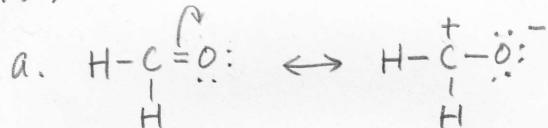
A \neq C

c. isomer

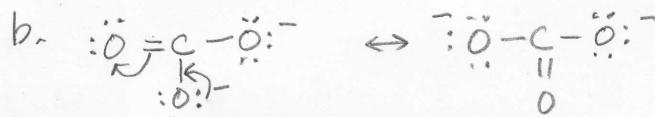
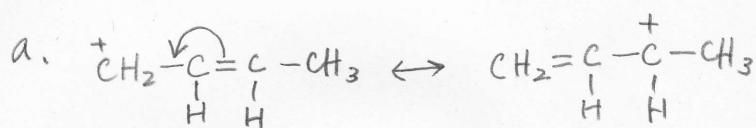
A \neq D

d. isomer

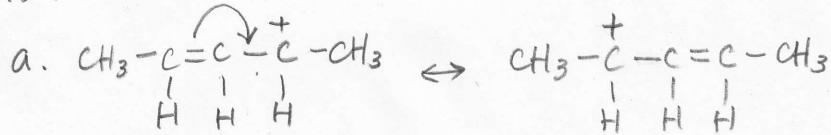
(1.13)

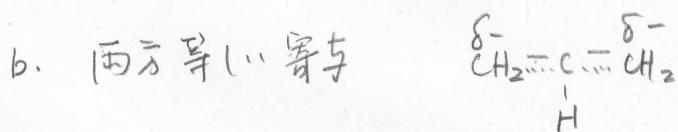
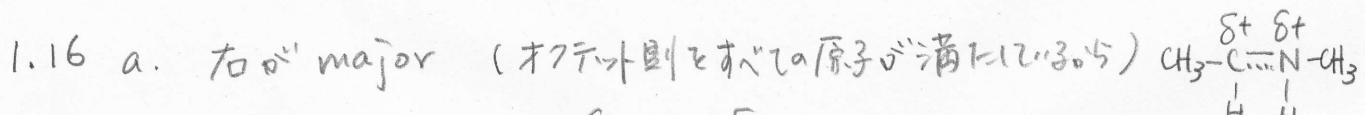
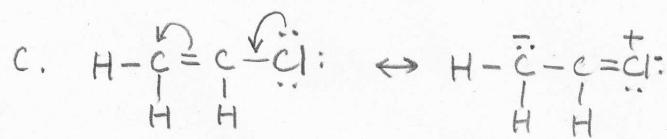
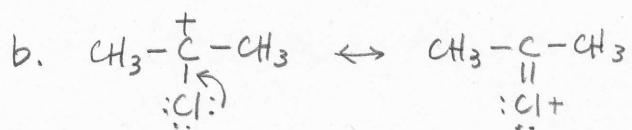


1.14

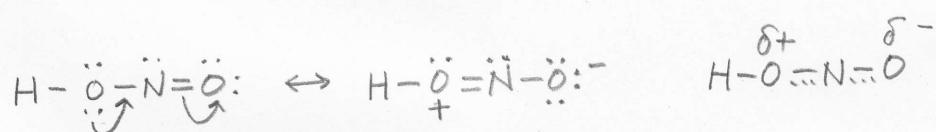


(1.15)

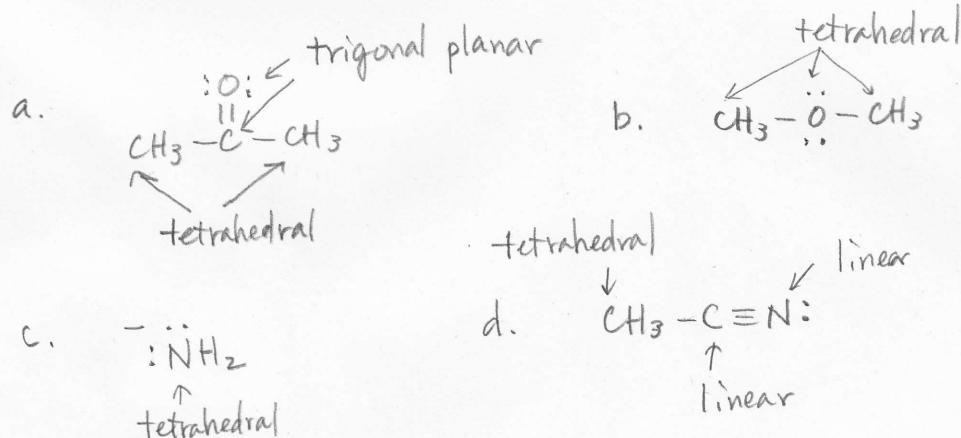




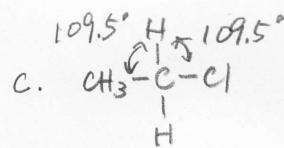
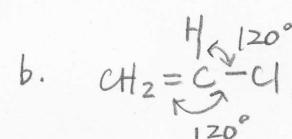
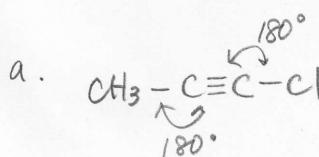
1.17



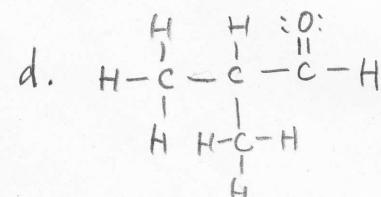
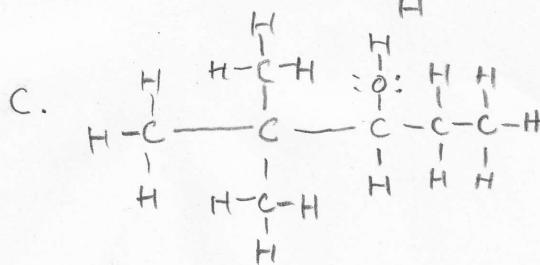
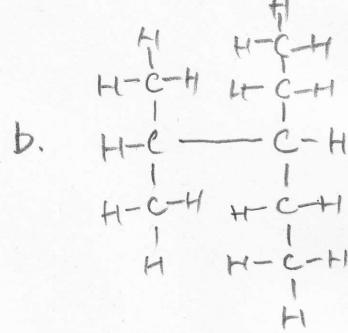
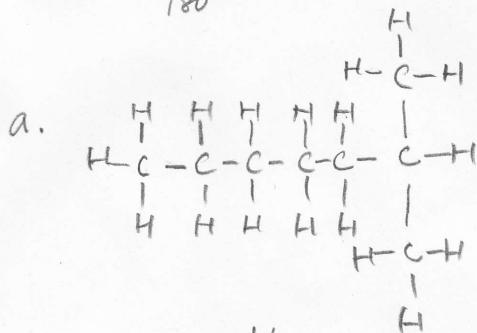
1.19



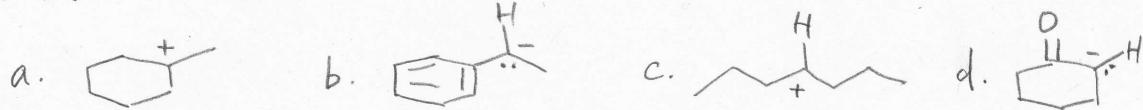
1.20



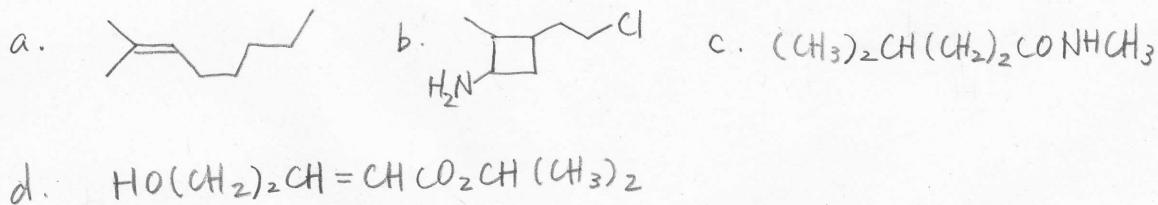
1.22



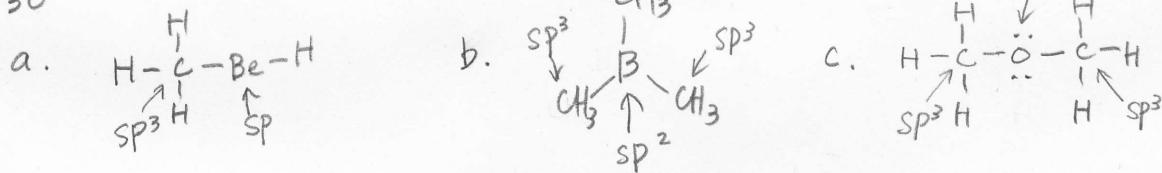
(1.27)



1.28

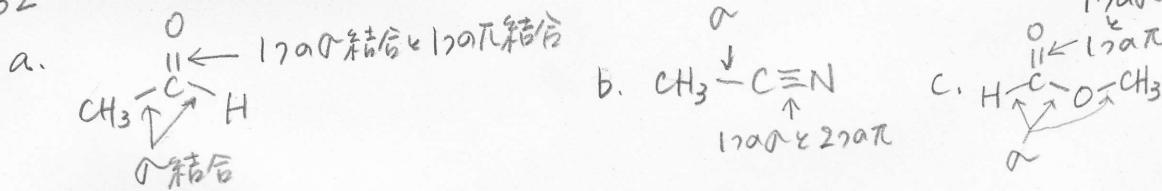


1.30



(124ルル"説明を省く。また、"H"が"2つ")

1.32

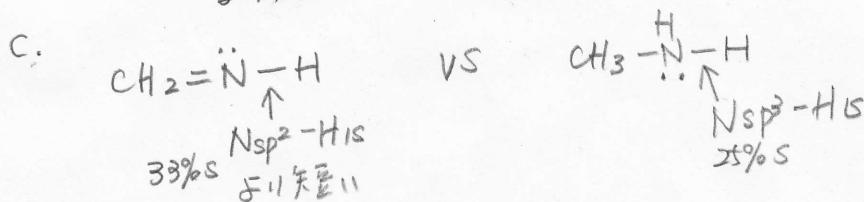
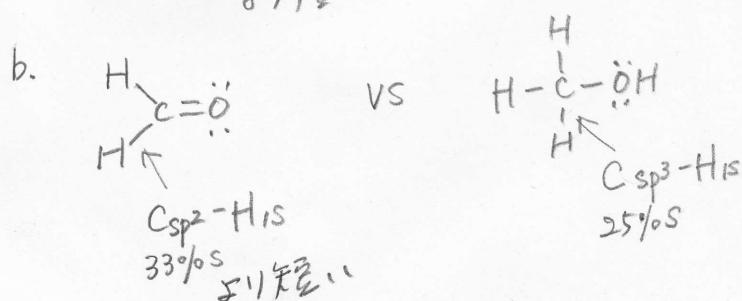
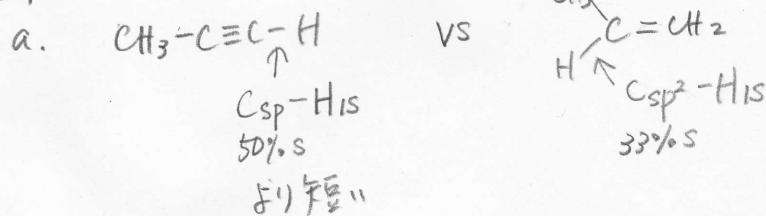


1.33

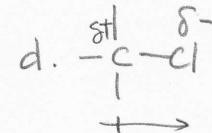
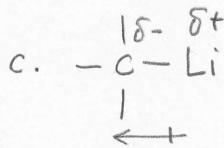
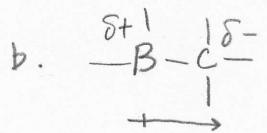
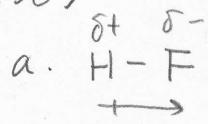
a. bond strength: 1 < 3 < 2 bond length: 2 < 3 < 1

b. ---H--- : 1 < 2 < 3 ---H--- : 3 < 2 < 1

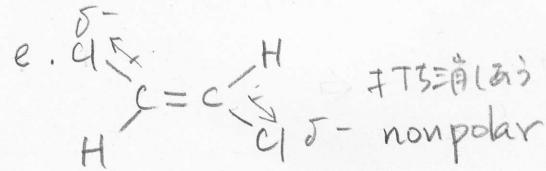
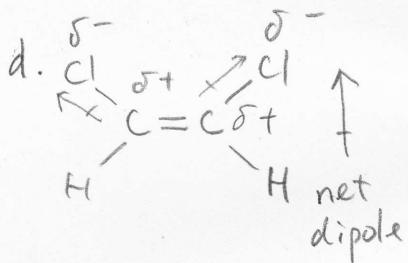
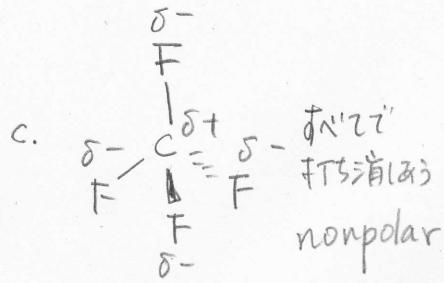
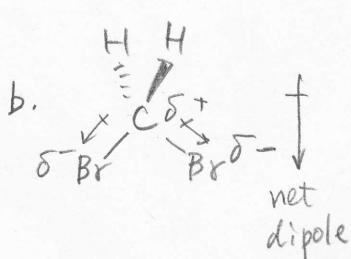
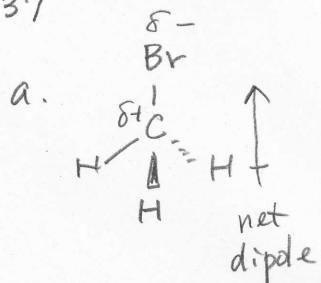
(1.34)



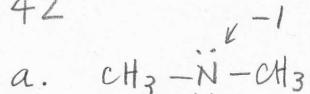
(1.36)



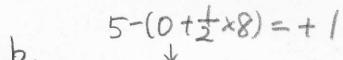
1.37



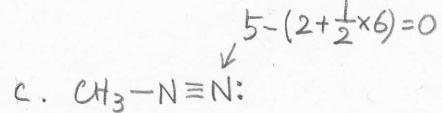
1.42



$$5 - (4 + \frac{1}{2} \times 4) = -1$$

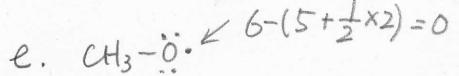
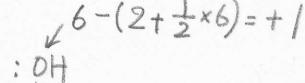


$$5 - (4 + \frac{1}{2} \times 4) = -1$$

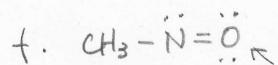


$$5 - (0 + \frac{1}{2} \times 8) = +1$$

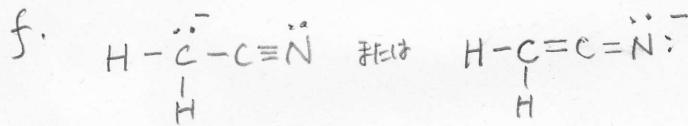
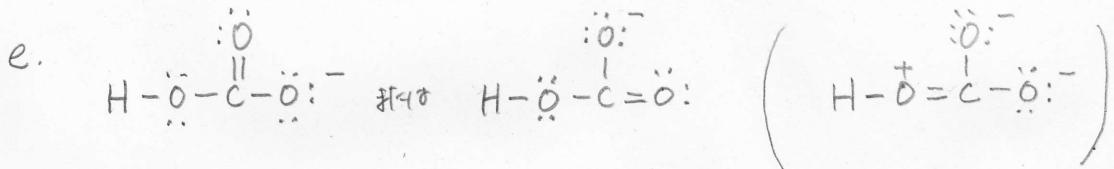
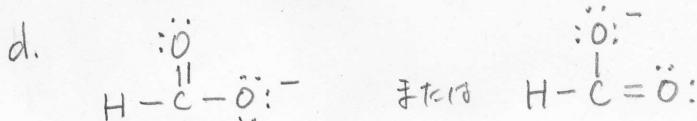
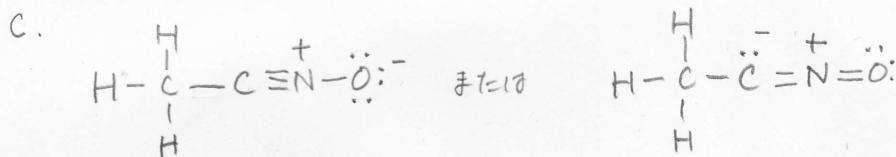
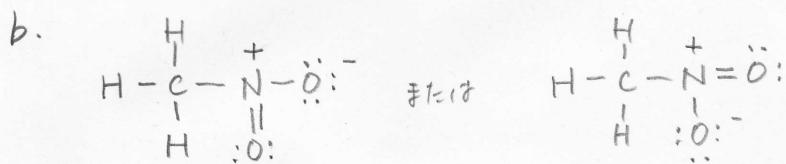
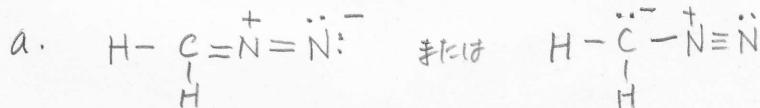
$$5 - (2 + \frac{1}{2} \times 6) = 0$$



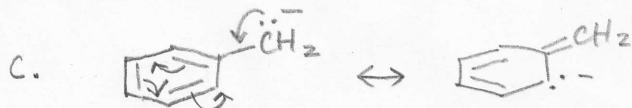
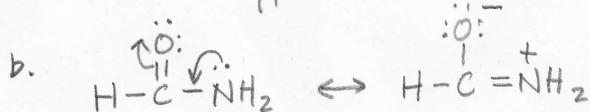
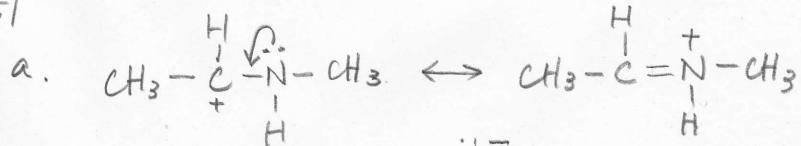
$$6 - (4 + \frac{1}{2} \times 4) = 0$$



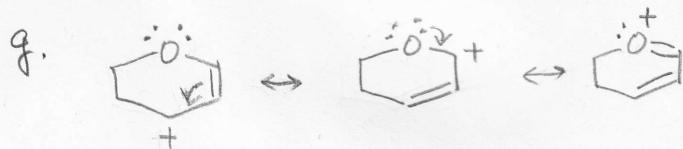
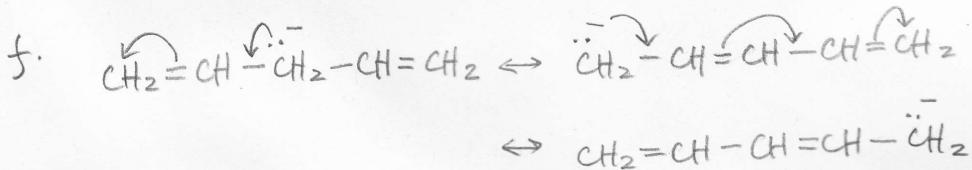
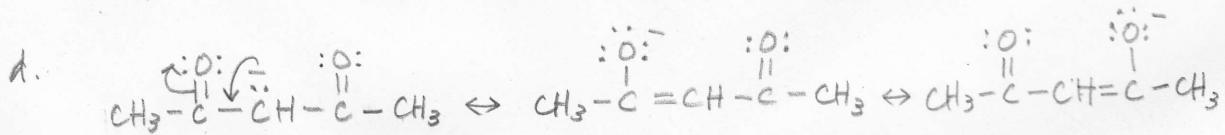
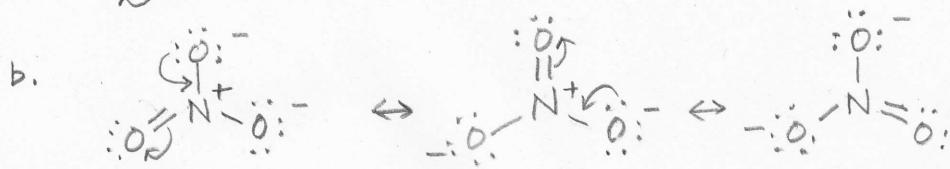
1.43



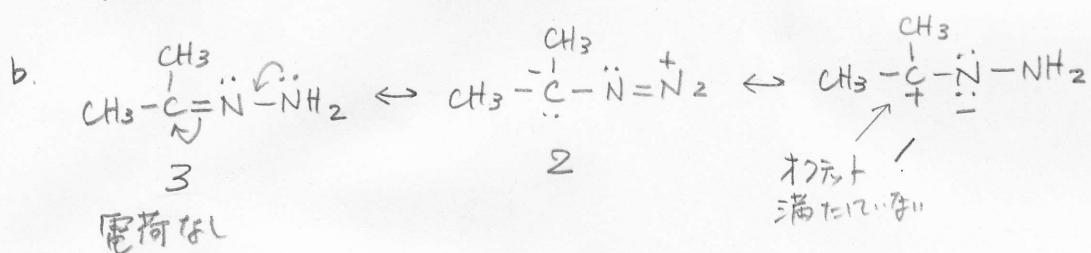
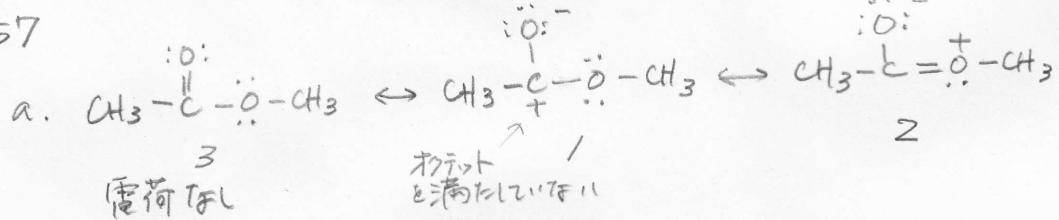
1.51



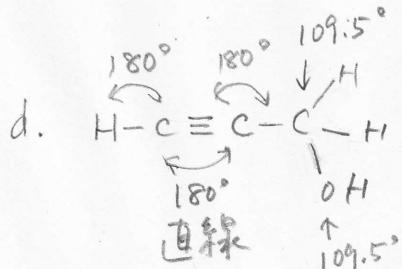
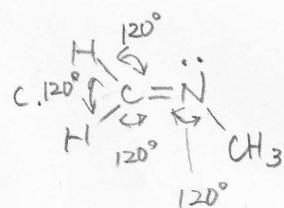
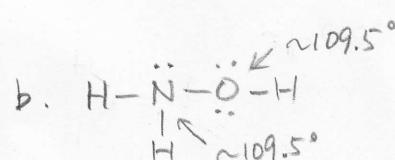
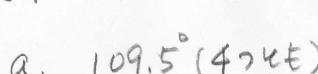
1.55



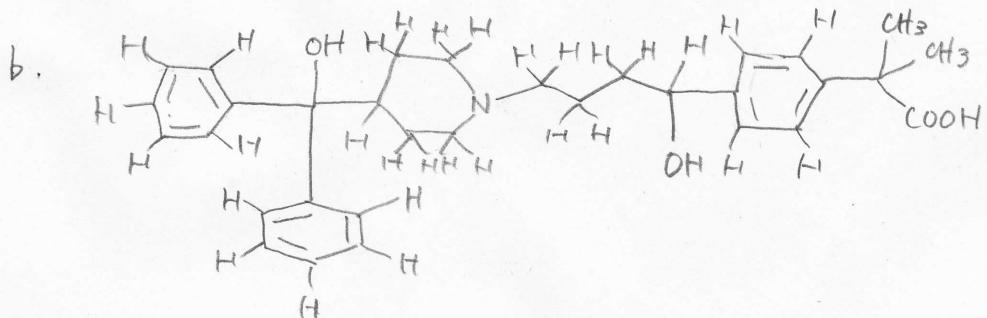
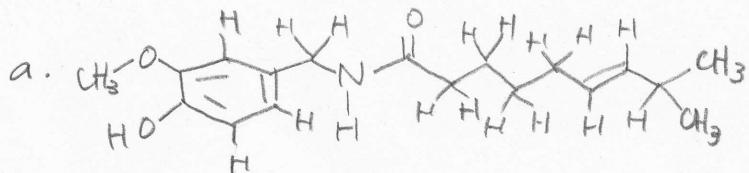
1.57



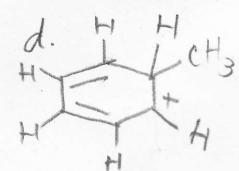
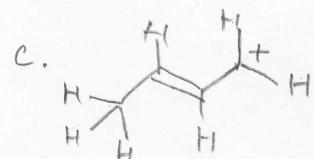
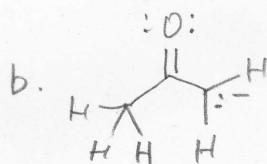
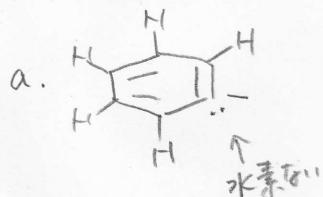
1.59



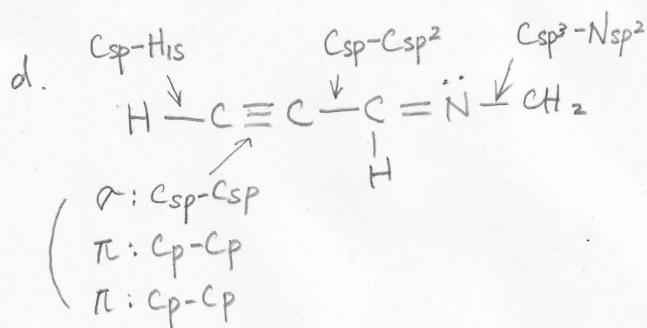
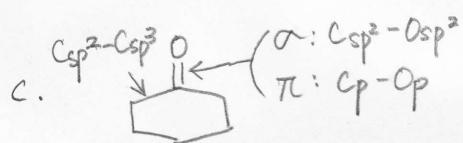
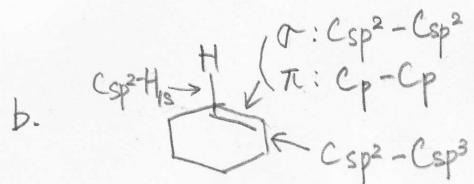
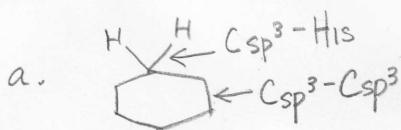
1.62



1.66

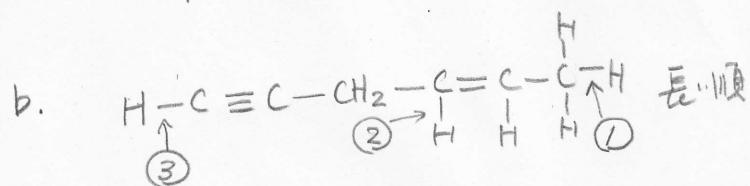


1.70

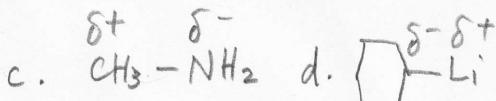
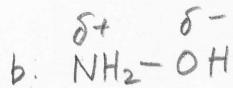
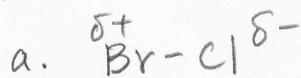


1.74

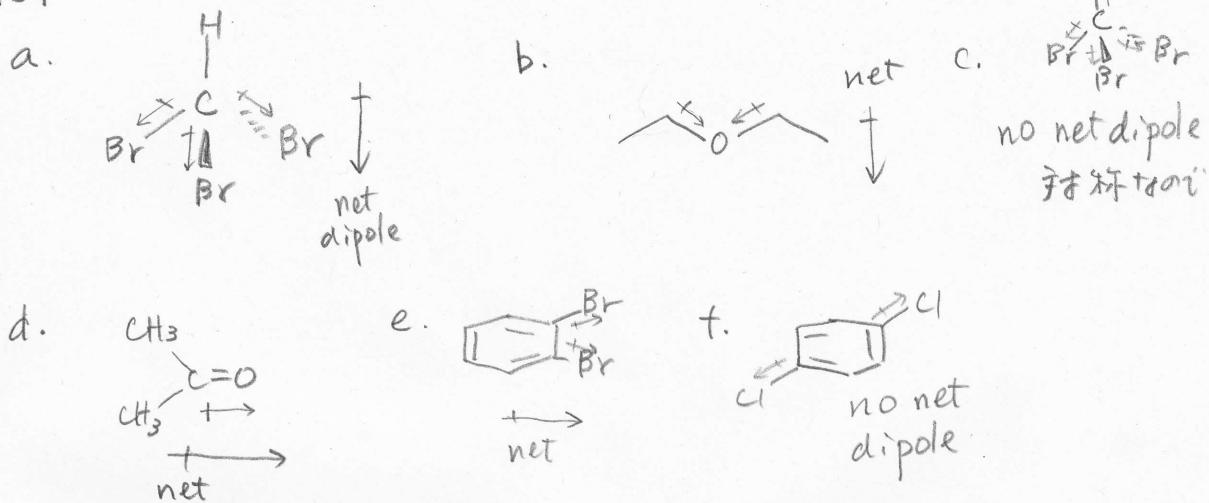
a. 一番右の「一番長」
一番左の「一番短」



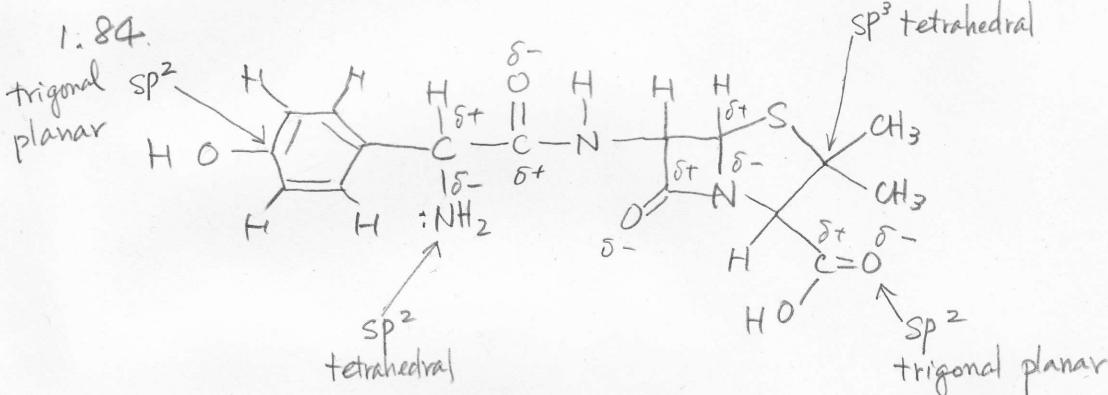
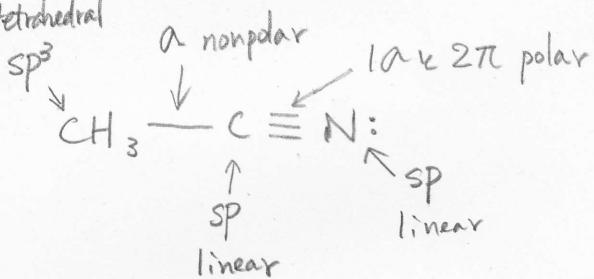
1.80



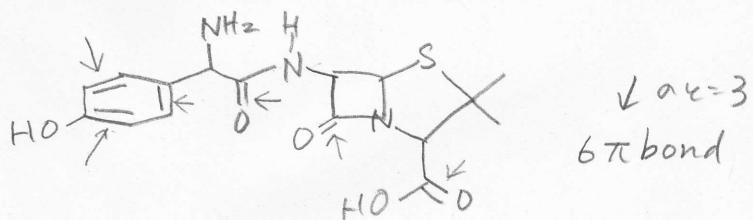
1.81



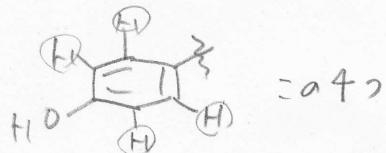
1.82



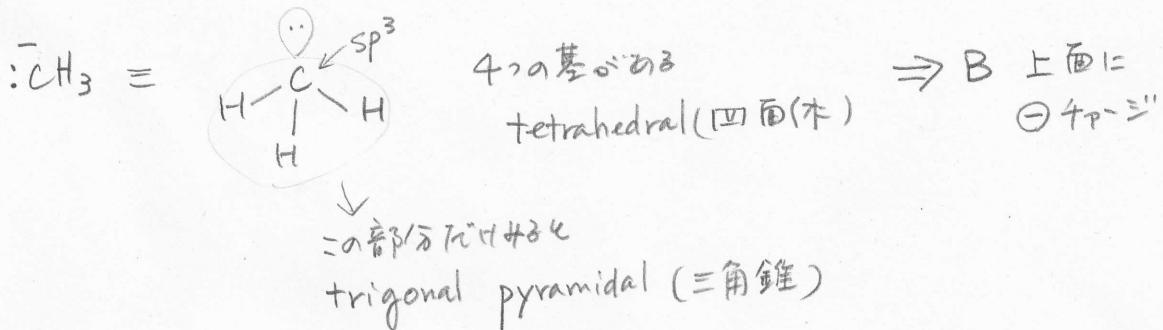
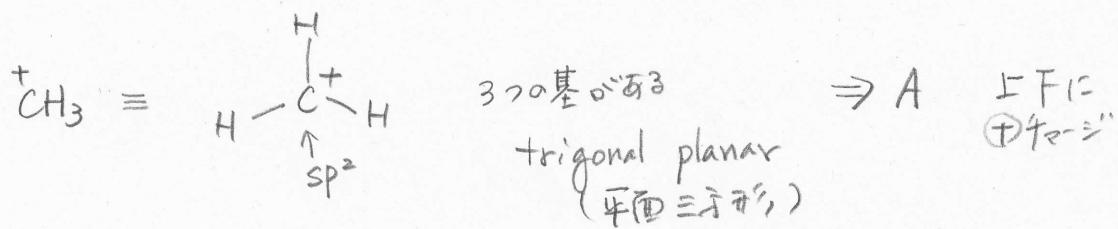
skeleton structure

33% s-character \Rightarrow sp^2 a 炭素

C-H 結合 6/12 ...



1.87



1.89



* それ以外の問題の答えは 部屋に見に来て

F211