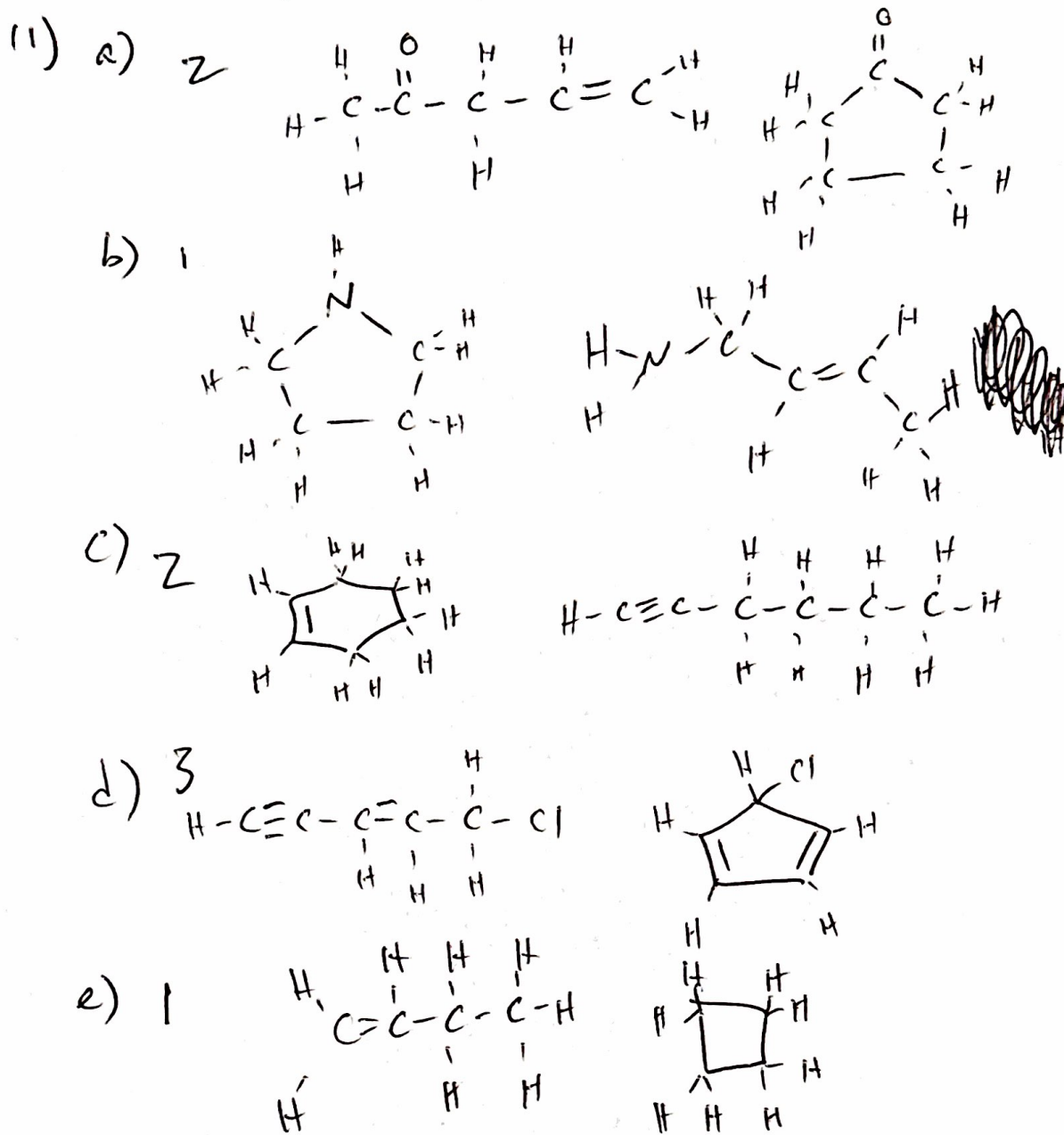


Chapter 10



12) a) E b) E c) Z d) E e) E

13) a) (E)-3-heptene b) 1,2-dimethyl-1,3,5-cycloheptatriene

c) (Z)-5-chloro-2-pentene d) 1,3E-pentadiene

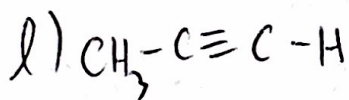
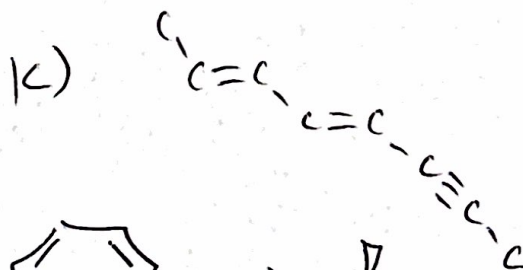
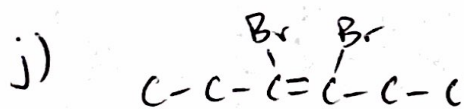
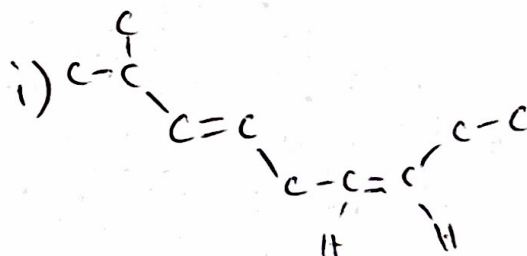
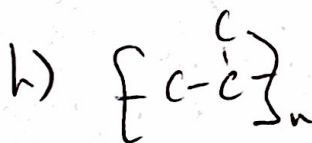
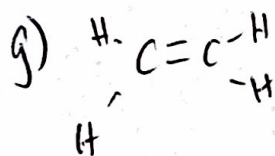
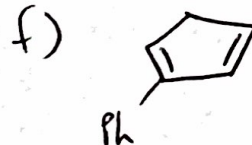
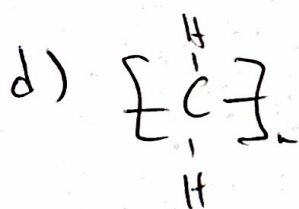
e) 2-heptyne f) Z-ethyl-1-pentene g) 3-phenyl-1-butene

h) trans-4-ethyl-3-methylcyclopentene i) ~~1,3,5~~ Z-ethyl-1,3E,5-hexatriene

13) j) 3-methyl-3Z-heptene k) 2-cyclopentyl-1,3-cyclopentadiene

l) ~~2,3,4,5-tetra-3Z-hexene~~

2,3,4,5-tetramethyl-1-3Z-hexene

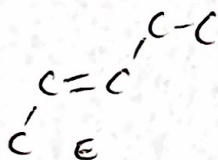
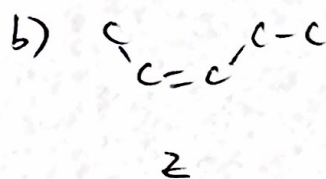
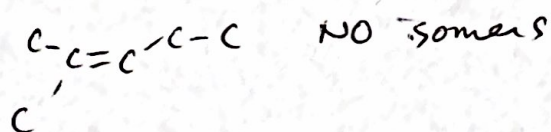


15) E Z

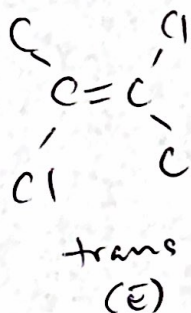
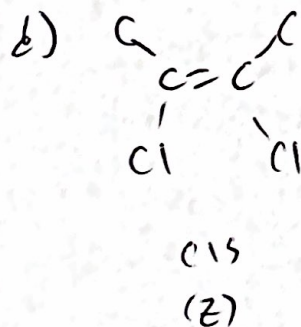
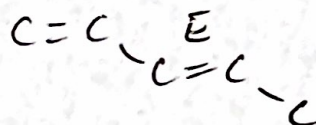
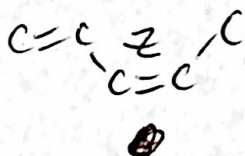
16) A (E,Z)-2,13 - - -

B (E,Z)-3,13 - - -

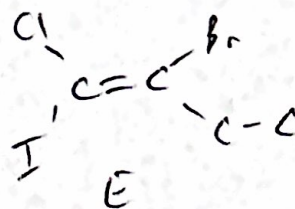
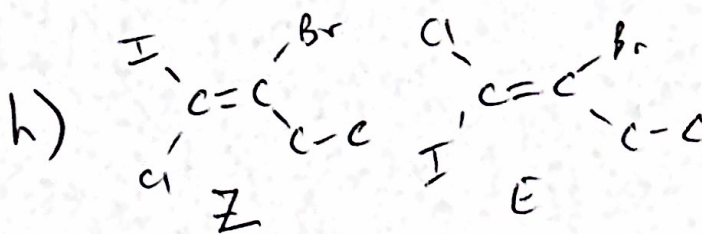
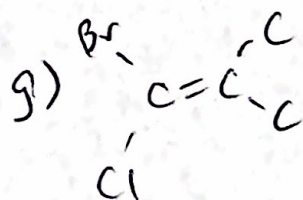
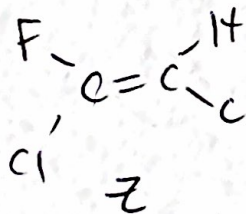
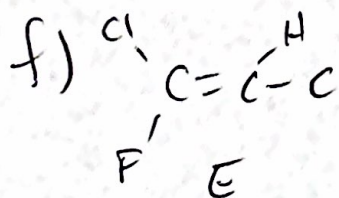
17) a)



c) ~~scribbled out~~

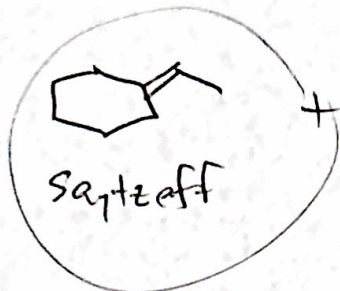


e) C=C(C)CC NO isomers



18)

a)



Hofmann

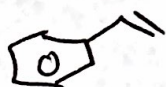
b) Hofmann w/ large base

19)

a)



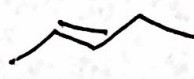
b)



c)



d)



20)

yes

yes

NO

NO

NO

NO

yes

NO

yes

yes

NO

NO

NO

yes

21)

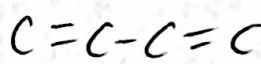
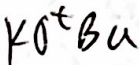
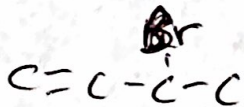
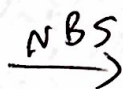
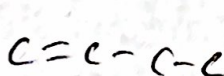
a)

Zn/Acetic Acid

or

KI/Acetone

b)



c)

Base like

NaOH

or

NaOMe

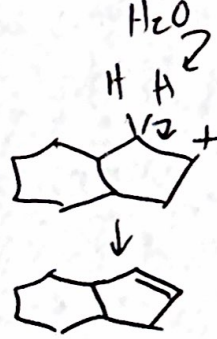
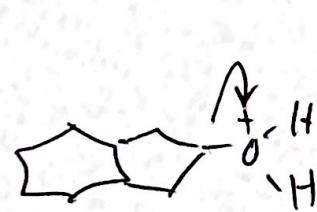
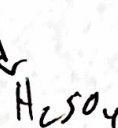
or

KO^tBu

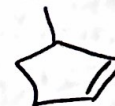
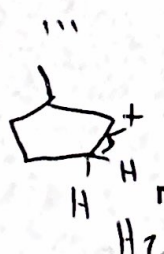
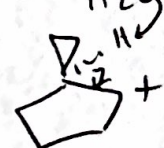
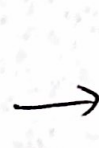
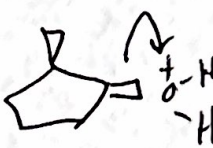
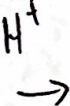
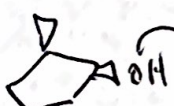
d)

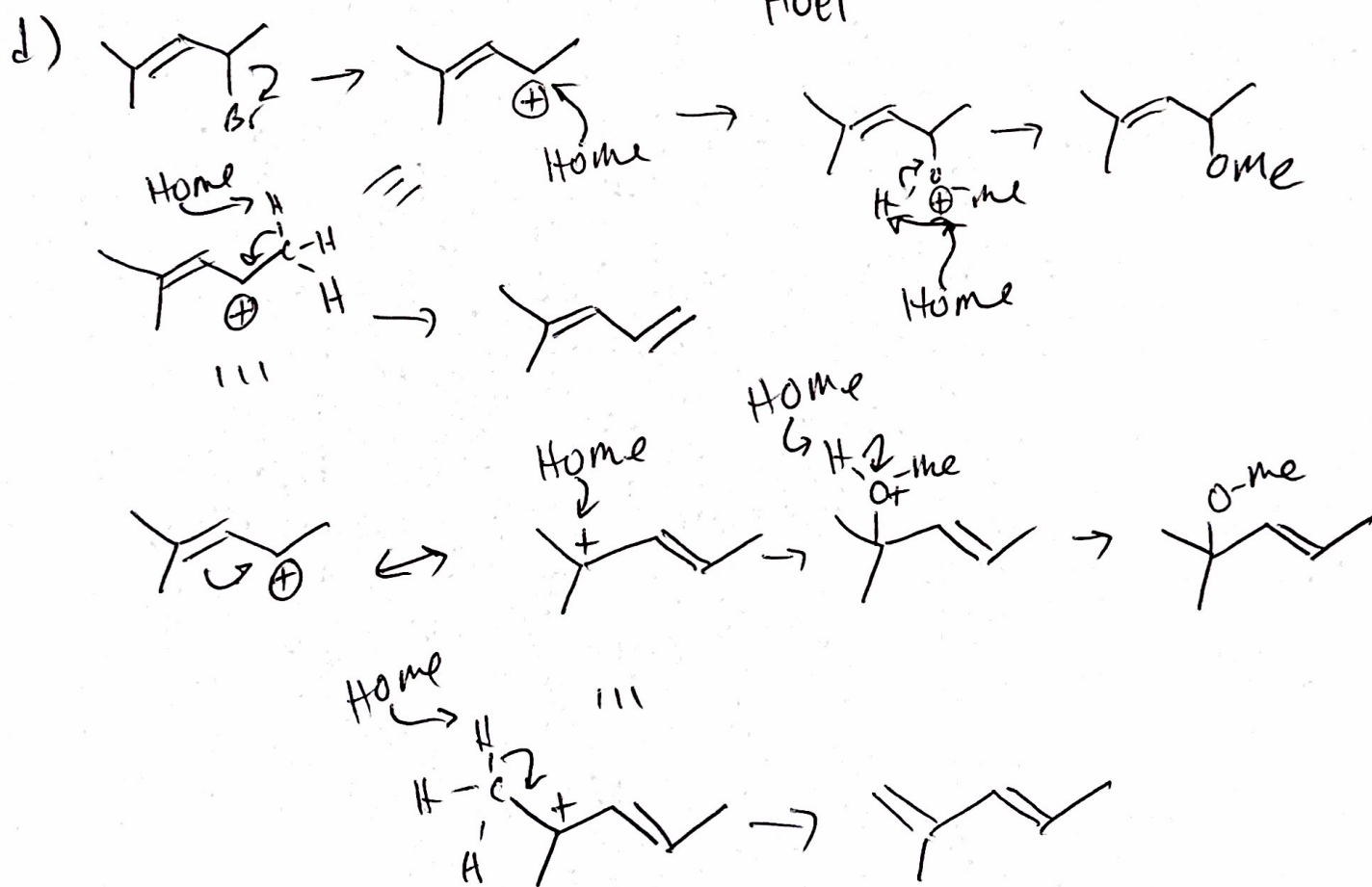
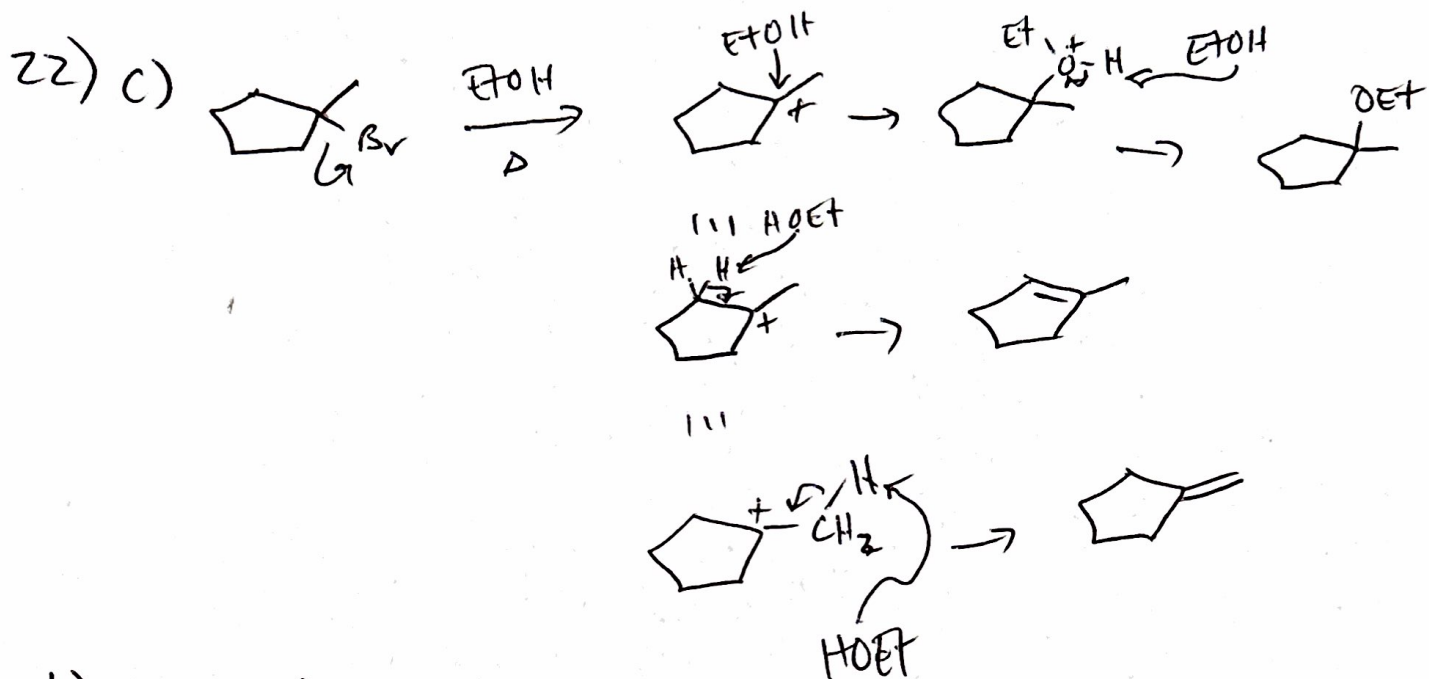
H_2SO_4

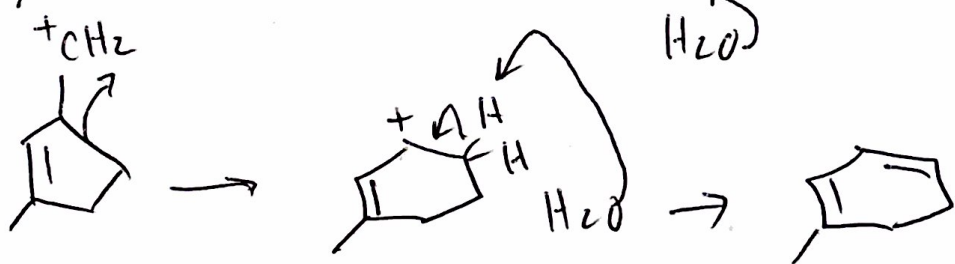
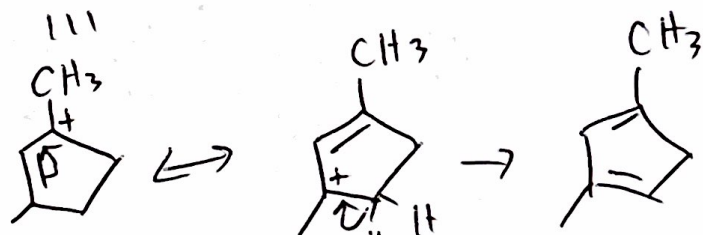
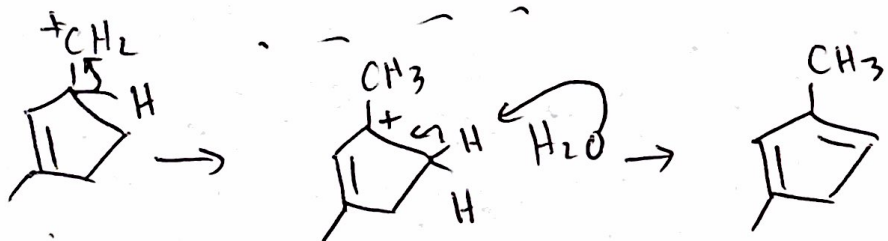
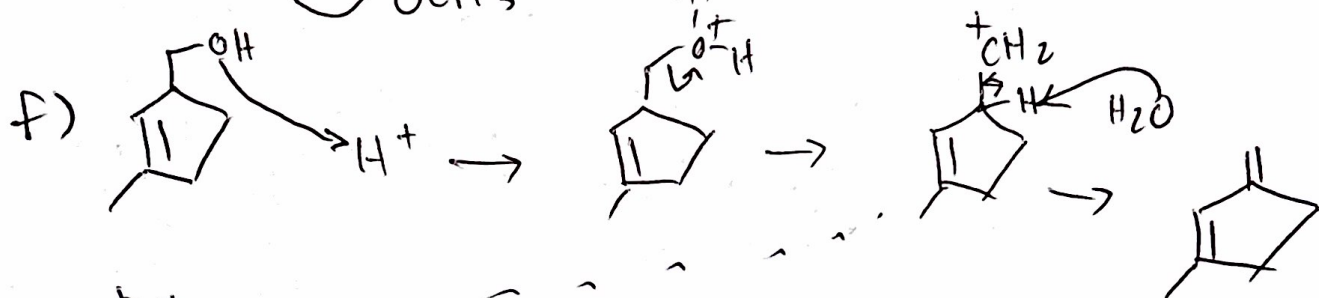
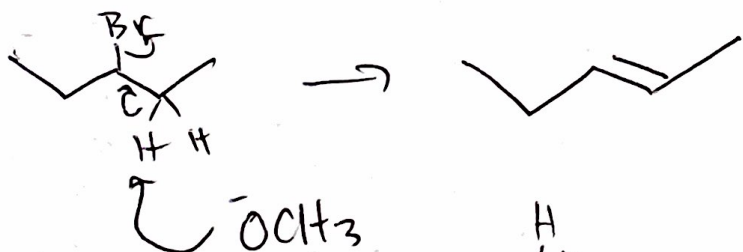
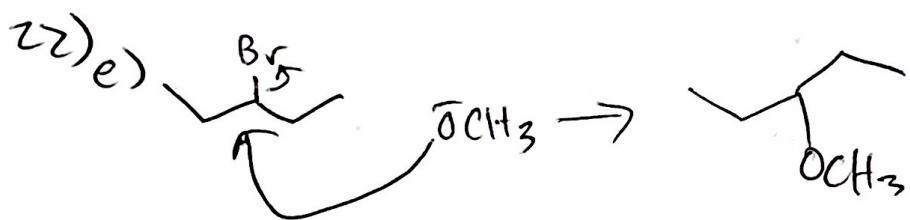
22) a)



b)







23) ^{PRODUCT}
VIOLATES Bredt's Rule

