

MAD ORG. CHEM. MIN. # 13

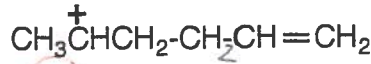
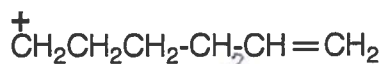
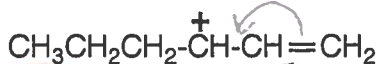
LAST NAME _____ FIRST NAME _____

ID# _____

CIRCLE CLASS TIME: 10 AM

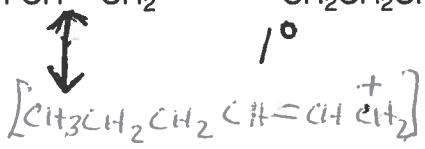
1 PM

1. Place the following carbocations in order of increasing stability (1=least, 3=most stable).



2° resonance stabilized

3

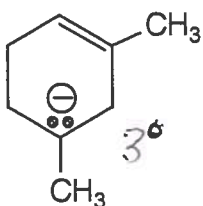


1

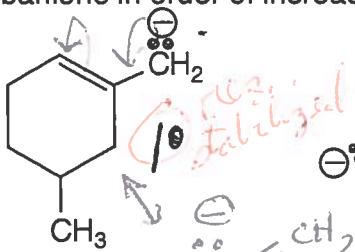
2°

2

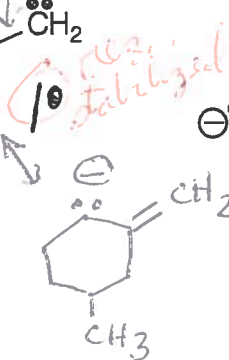
2. Place the following carbanions in order of increasing stability (1=least, 4=most stable).



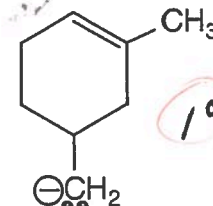
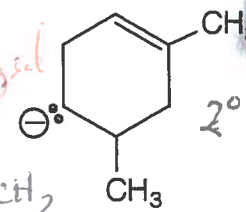
1



4

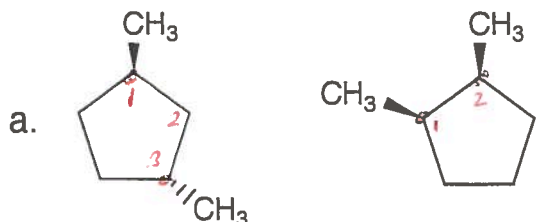


2



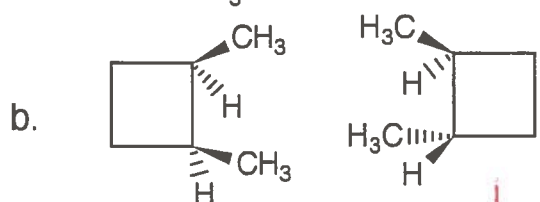
3

3. Label each of the following pairs of compounds as identical, structural isomers, enantiomers, or diastereomers.

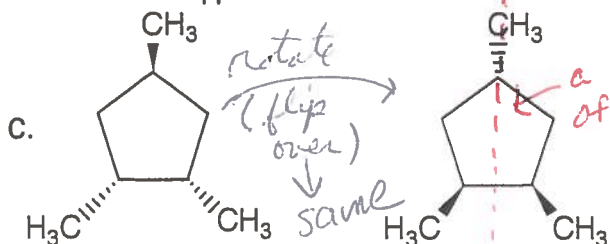


can't be diastereomers → NOT stereoisomers

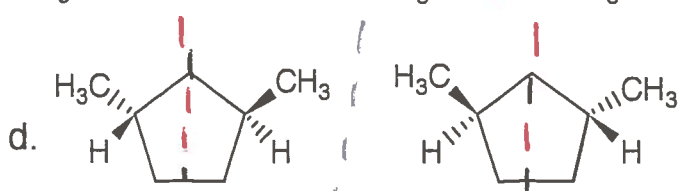
structural isomers - different connectivity



diastereomers - stereoisomers that are not mirror images



identical



enantiomers - nonsuperimposable mirror images

NOT a sym. plane