

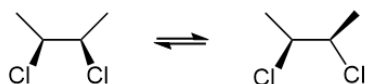
Exam II Review – [Practice Problems](#)

1

Draw the most stable chair conformation of *trans*-1-iodo-2-methylcyclohexane.

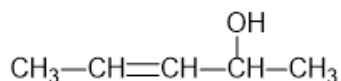
Predict the direction of the equilibrium (forward, reverse or neither). *Hint: consider Newman projections.*

2



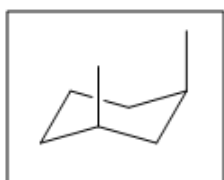
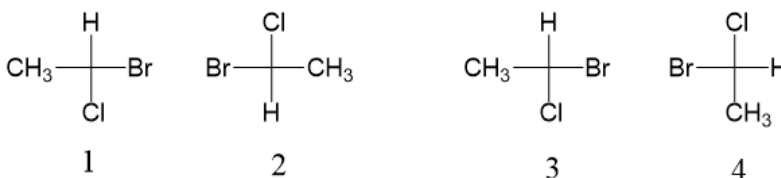
Draw a Fischer projection and line drawing of (*S*)-4-bromononane.

Draw all stereoisomers of the given compound:

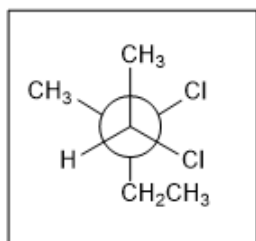
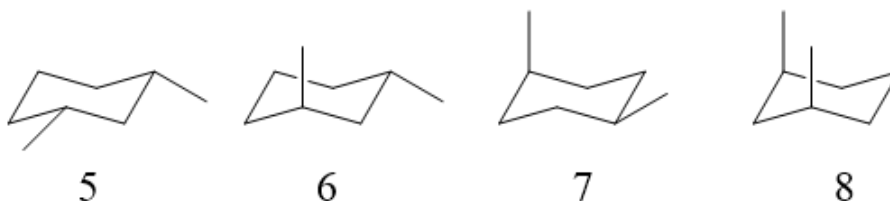


Determine relationship between given pairs:

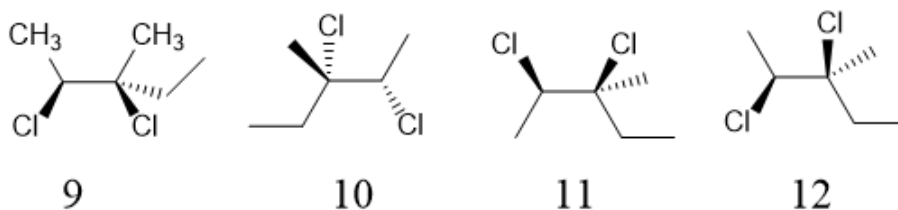
- A) constitutional isomers
- B) enantiomers
- C) diastereomers
- D) the same compound
- E) unrelated



vs.



vs.



IUPAC name of this compound?  
(Include stereochemistry)