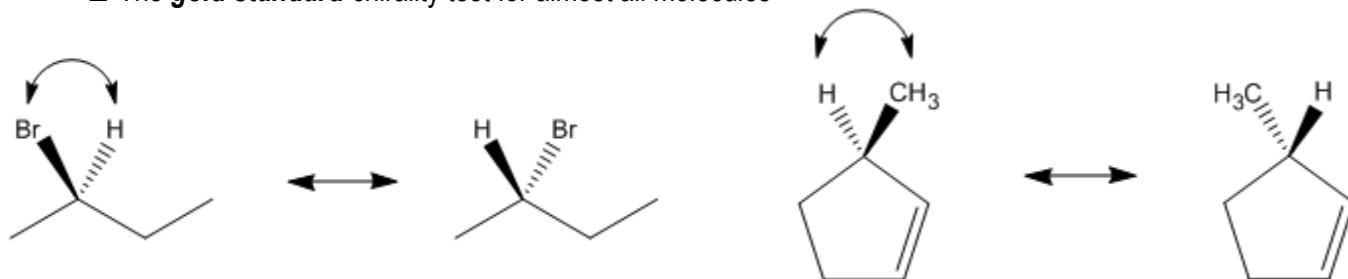


CONCEPT: TEST 2: STEREOCENTER TEST

Any atom that creates a stereoisomer after swapping groups is called a _____

- ☐ The **gold standard** chirality test for almost all molecules



Stereogenic Center (Stereocenter)

- Any atom that creates stereoisomers after swapping groups

Chiral Center

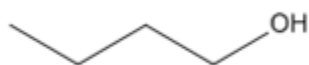
- An atom with 4 different substituents. **Chiral**

Trigonal Center

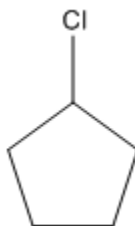
- Any double bond capable of forming an E or Z isomer. **Achiral**

EXAMPLE: Which of the following molecules contain a stereogenic center? Of these, how many are chiral?

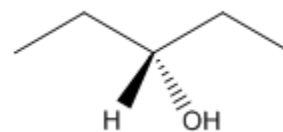
a.



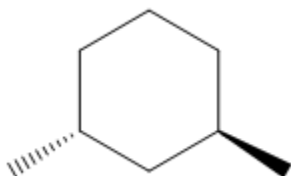
b.



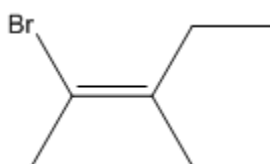
c.



d.



e.



f.

