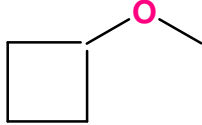
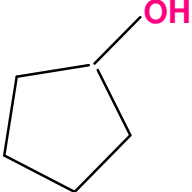
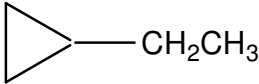
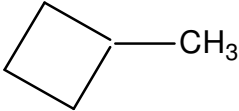
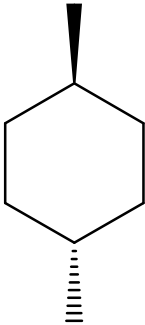
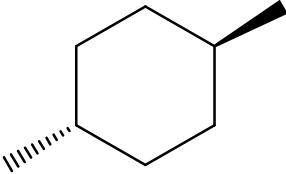
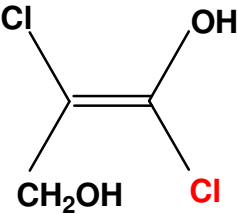
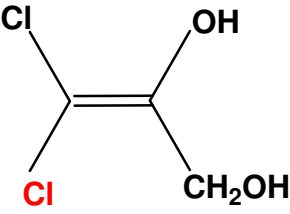


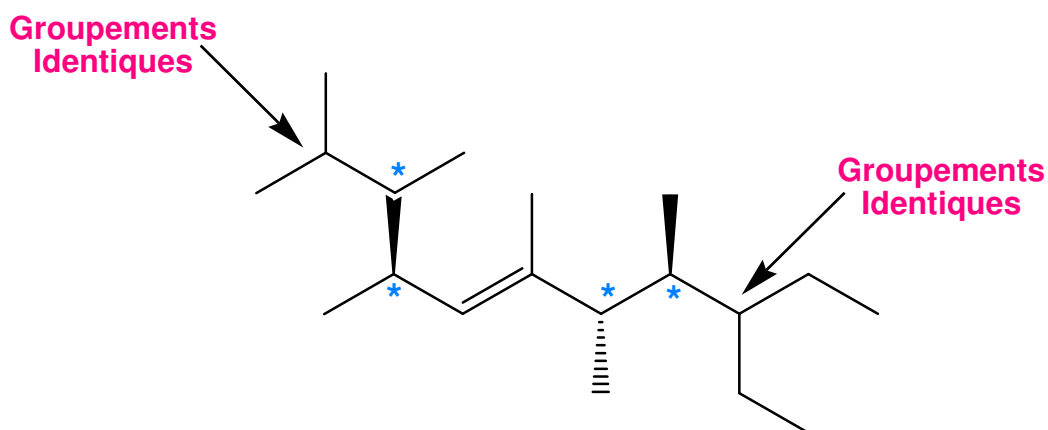
*Correction des Travaux dirigés (2013-2014)*

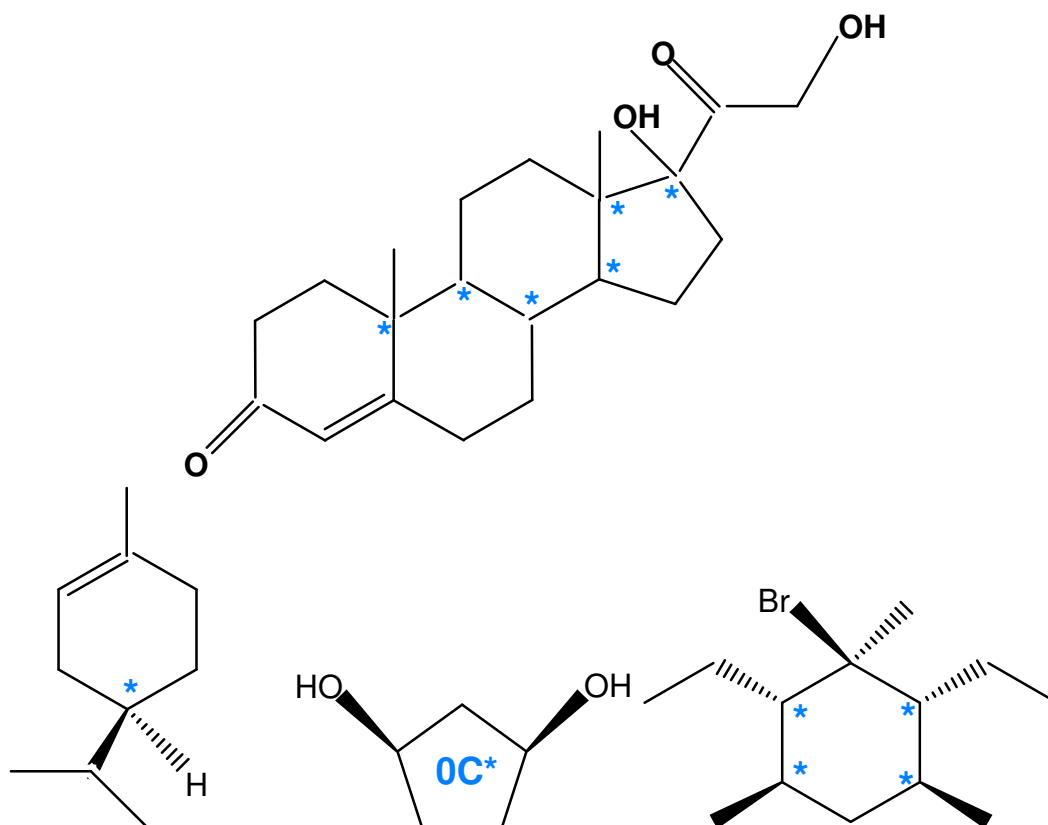
**Exercice n°1**

Quelle relation d'isomérie existe-t-il entre chaque paire de molécules ?

|   |  |                                    |
|---|--|------------------------------------|
|    |    | <p><b>Isomères de fonction</b></p> |
|    |    | <p><b>Isomères de chaîne</b></p>   |
|   |   | <p><b>Identiques</b></p>           |
|  |  | <p><b>Isomères de position</b></p> |

**Exercice n°2**





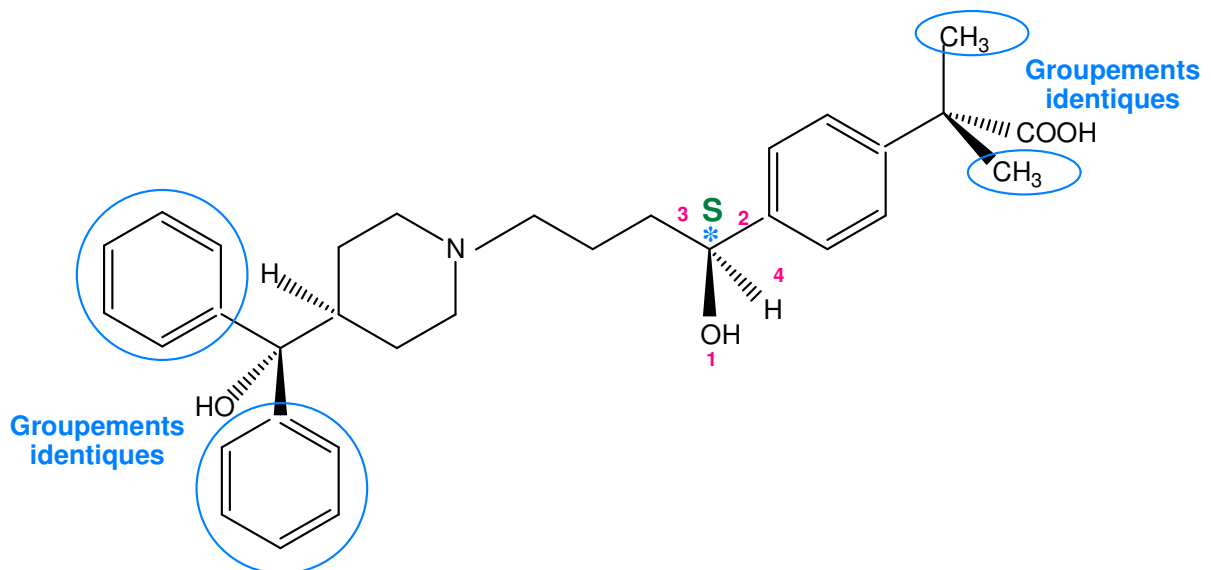
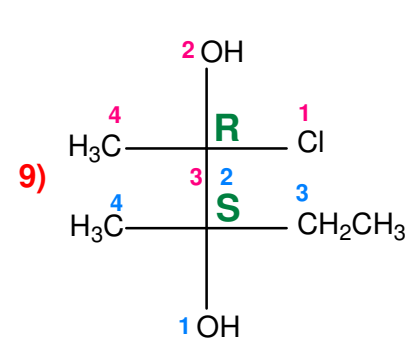
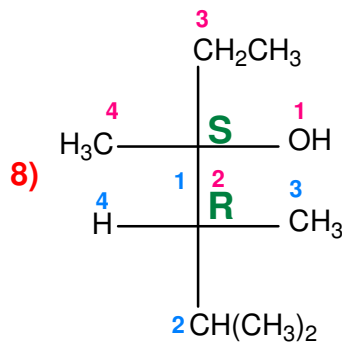
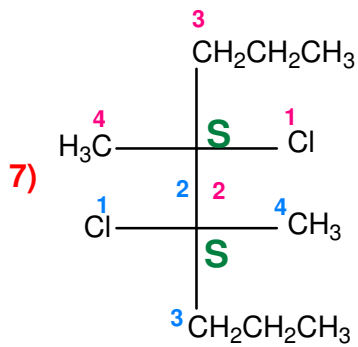
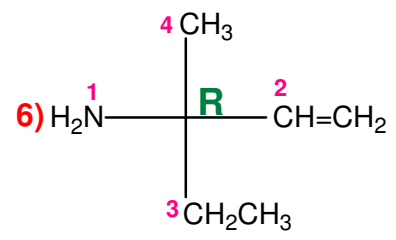
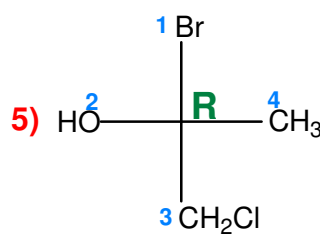
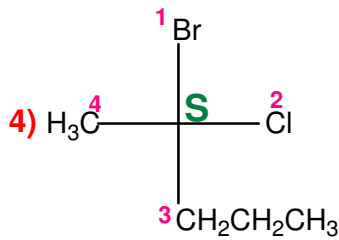
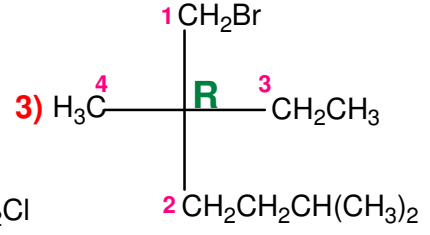
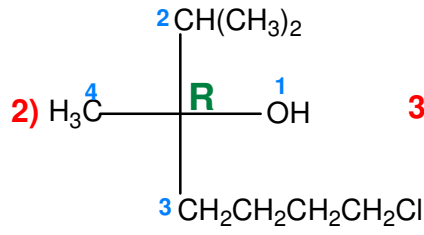
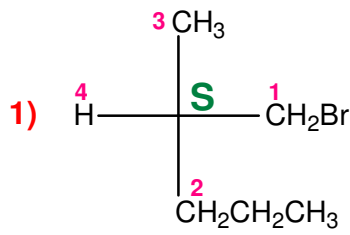
### Exercice n°3

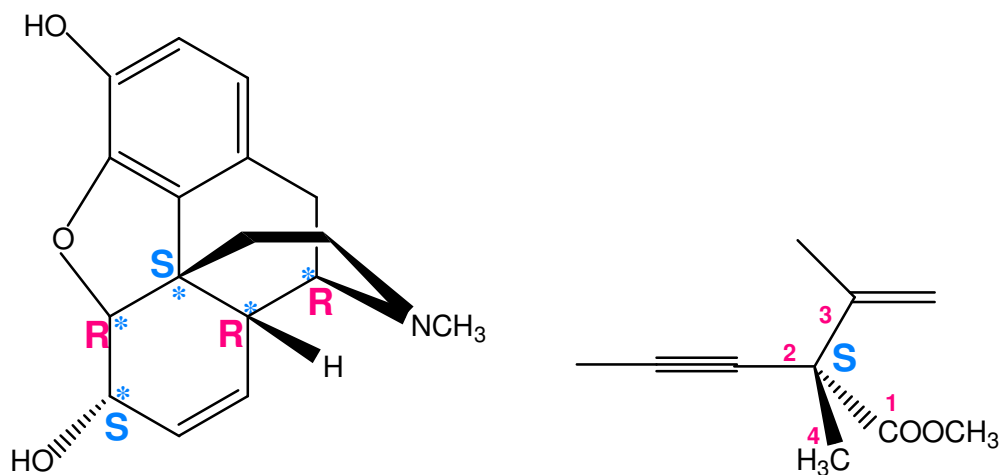
Ordre de priorité selon les règles de Cahn-Ingold-Prelog :

- 1)  $-\text{CH}=\text{O} > -\text{CH}_2\text{OCH}_3 > -\text{CH}_2\text{OH} > -\text{CH}_2\text{CH}=\text{O} > -\text{CH}_2\text{CH}_2\text{OH}$
- 2)  $-\text{CH}_2\text{I} > -\text{CHBr}_2 > -\text{CH}_2\text{Br} > -\text{CHCl}_2 > -\text{CH}_2\text{Cl}$
- 3)  $-\text{Br} > -\text{CN} > -\text{CH}_2\text{CH}_2\text{OH} > -\text{CH}_2\text{CH}_3 > -\text{H}$
- 4)  $-\text{OCH}_3 > -\text{OH} > -\text{COOCH}_3 > -\text{COOH} > -\text{CH}_2\text{OH}$
- 5)  $-\text{NH}_2 > -\text{CN} > -\text{CH}_2\text{NHCH}_3 > -\text{CH}_2\text{NH}_2 > -\text{CH}_3$
- 6)  $-\text{Br} > -\text{Cl} > -\text{CCl}_3 > -\text{CH}_2\text{Br} > -\text{CH}_2\text{Cl}$
- 7)  $-\text{C}_6\text{H}_5 > -\text{C}\equiv\text{CH} > -\text{C}(\text{CH}_3)_3 > -\text{CH}=\text{CH}_2 > -\text{CH}_3$
- 8)  $-\text{OCH}_3 > -\text{COOCH}_3 > -\text{COCH}_3 > -\text{CH}_2\text{OCH}_3 > -\text{CH}_2\text{CH}_3$
- 9)  $-\text{Br} > -\text{NH}_2 > -\text{CH}_2\text{Br} > -\text{CN} > -\text{CH}_2\text{CH}_2\text{Br}$
- 10)  $-\text{SH} > -\text{C}(\text{CH}_3)_3 > -\text{CH}=\text{CH}_2 > -\text{CH}(\text{CH}_3)_2 > -\text{CH}_2\text{CH}_3$

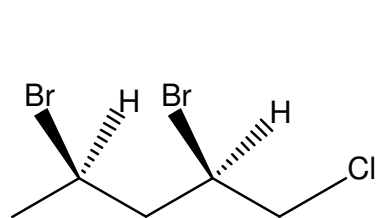
**Exercice n°4**

Configuration absolue des carbones asymétriques :

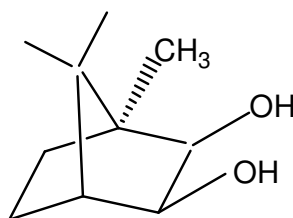




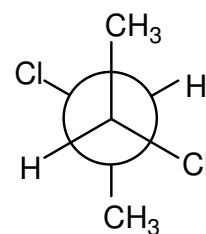
**Exercice n°5**



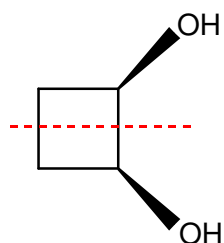
**A**  
Chirale



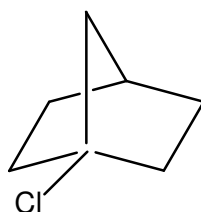
**B**  
Chirale



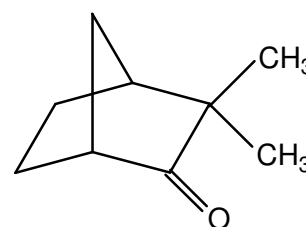
**C**  
Achirale  
Point de symétrie



**D**  
Achirale  
Plan de symétrie

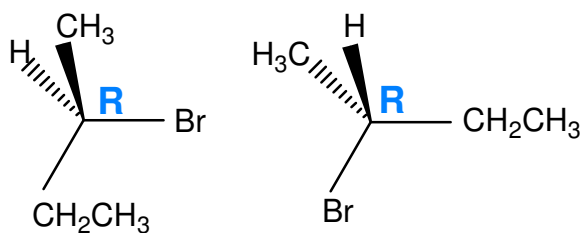


**E**  
Achirale  
Plan de symétrie

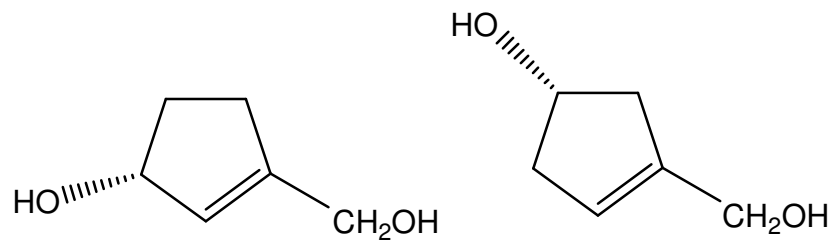


**F**  
Chirale

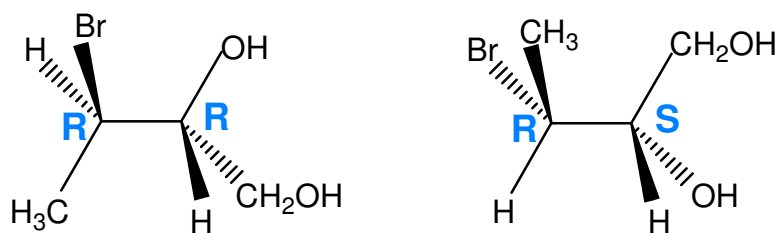
**Exercice n°6**



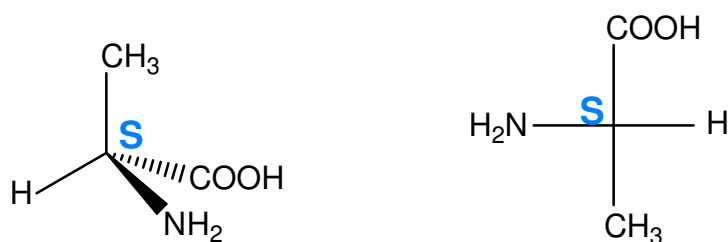
Identiques



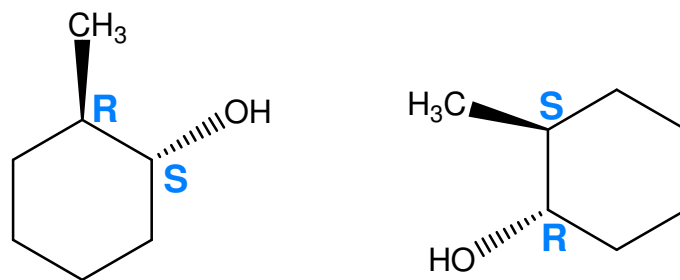
Isomères de Constitution



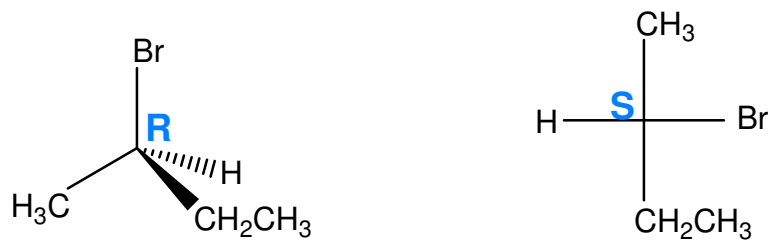
Diastéréoisomères



Identiques



Enantiomères



Enantiomères