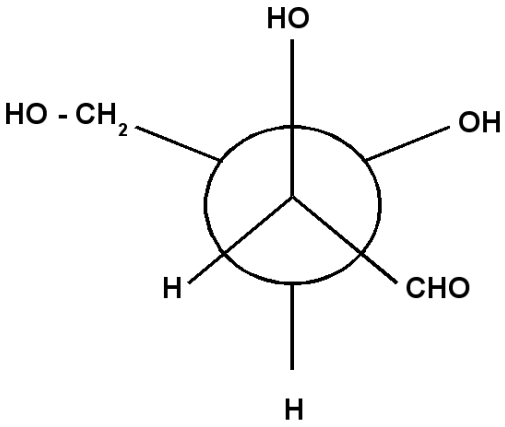
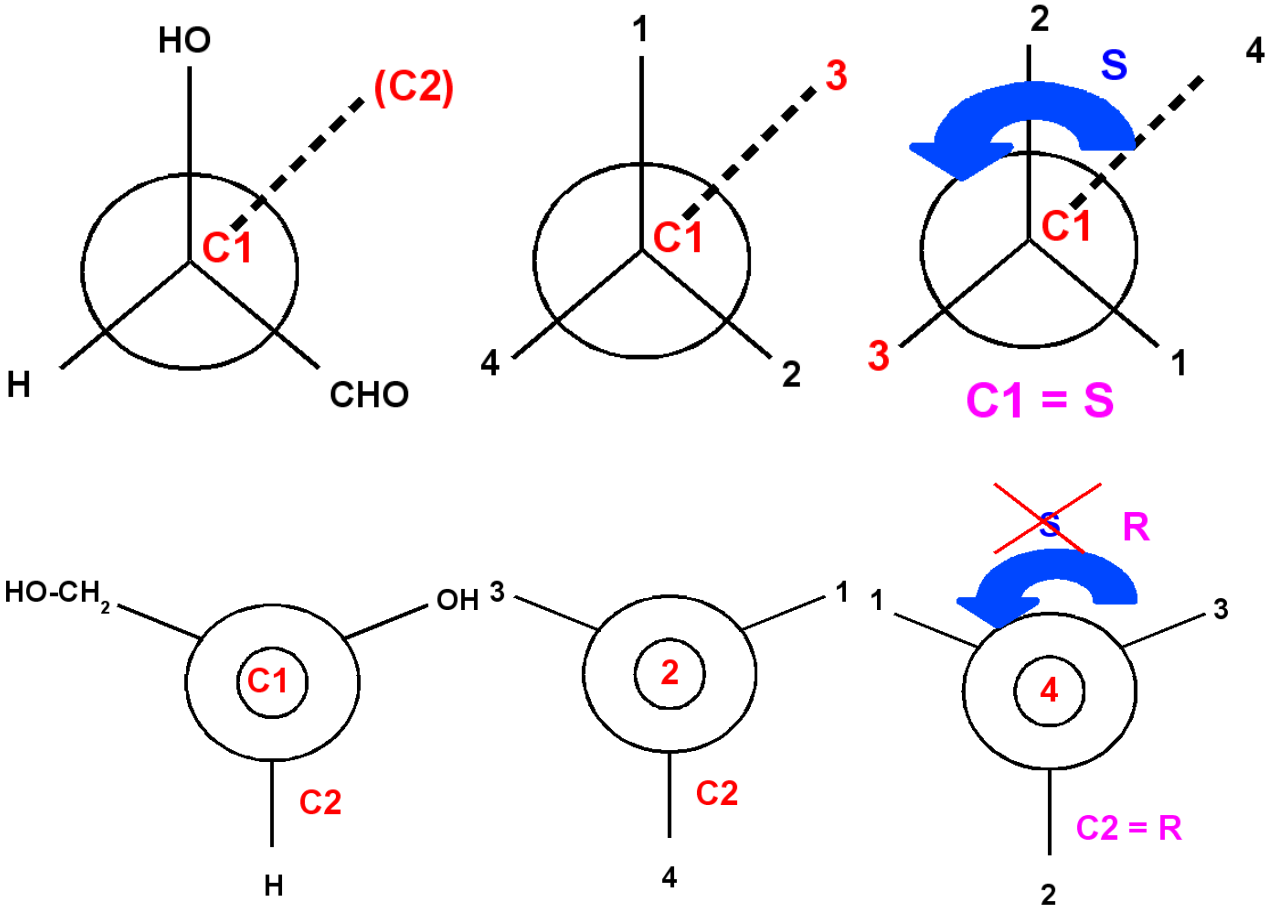
CONFIGURATIONS – EXERCICE 1

Pour les molécules suivantes :

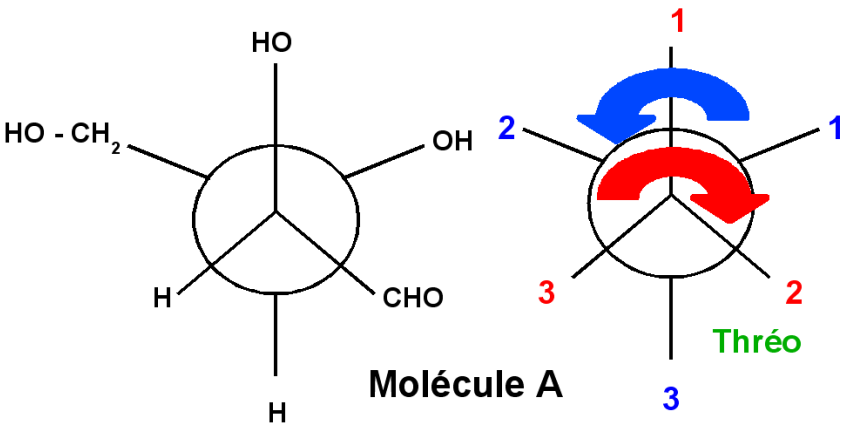
1. déterminer la configuration des carbones asymétriques
2. préciser sa nomenclature dans le système like/unlike.
3. préciser sa nomenclature dans le système thréo/érythro

MOLECULE A

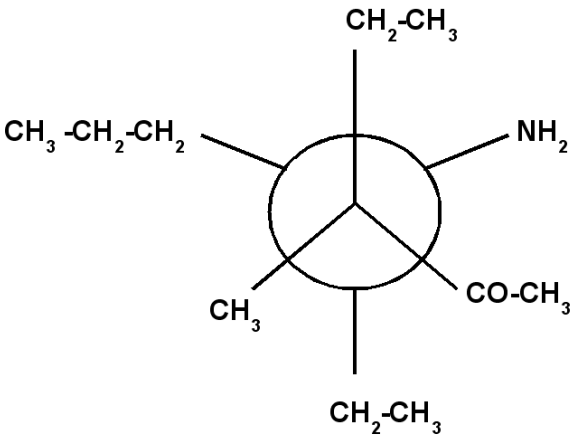


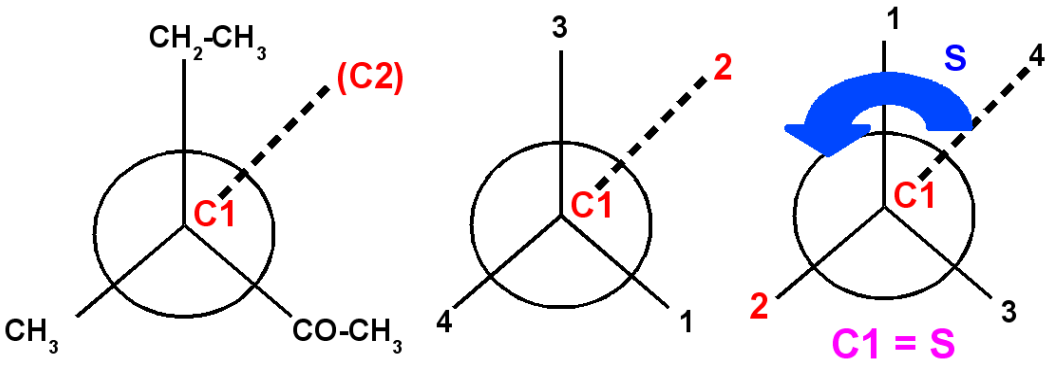


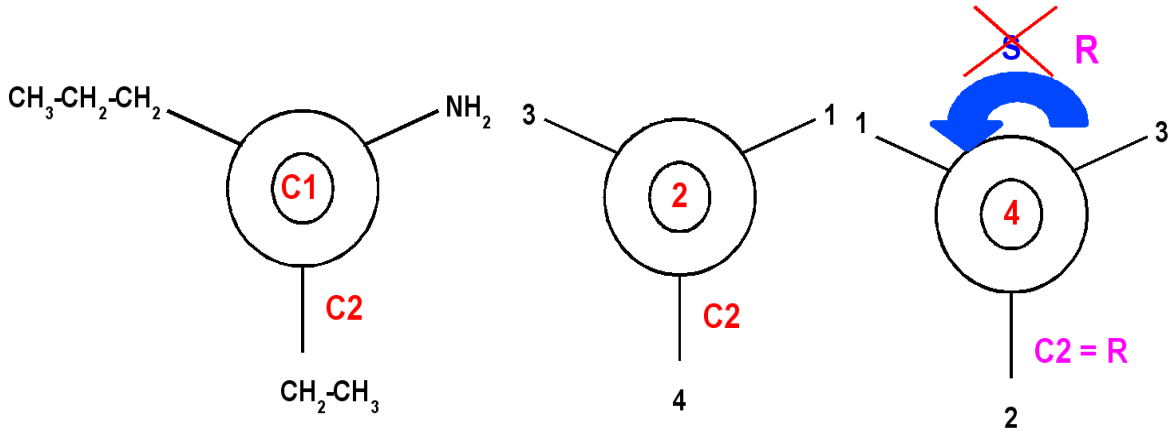
C1 et C2 sont de configurations différentes donc UNLIKE


HO
HO - CH2
OH
H
CHO
H
Molécule A
1
2
1
3
2
Thréo
3

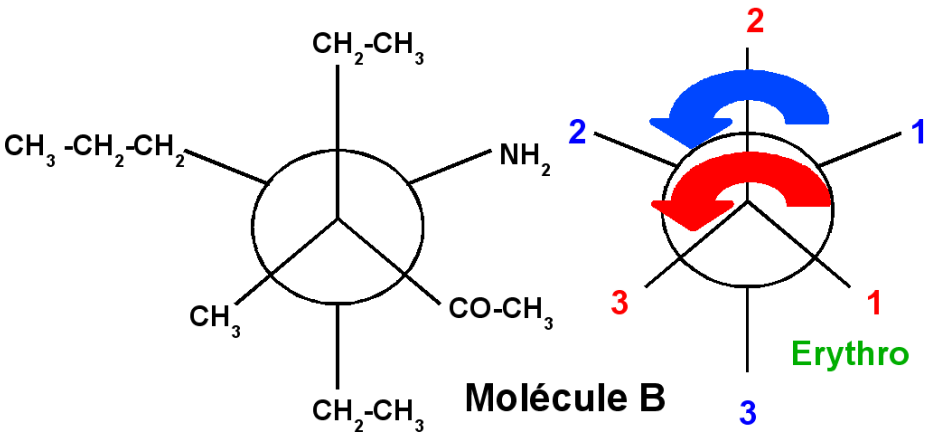
MOLECULE B


CH2-CH3
CH3 -CH2-CH2
NH2
CH3
CO-CH3
CH2-CH3

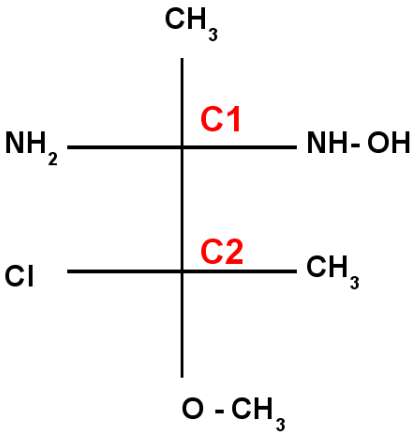

CH2-CH3
(C2)
C1
CH3
CO-CH3
3
2
C1
4
1
1
S
4
C1
2
3
C1 = S

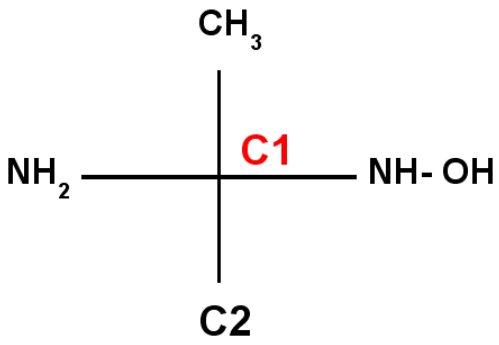


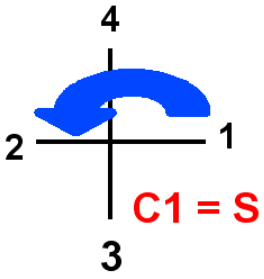
C1 et C2 sont de configurations différentes donc UNLIKE

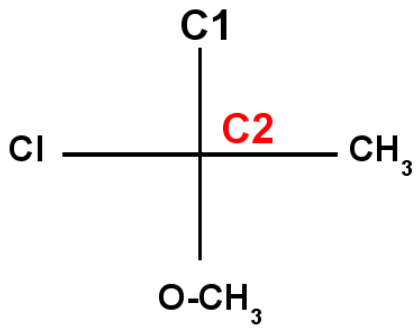


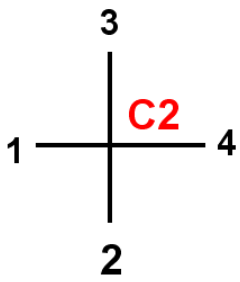
MOLECULE C

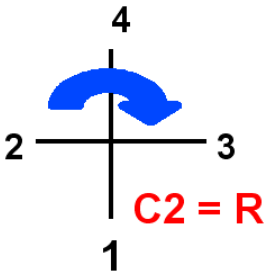




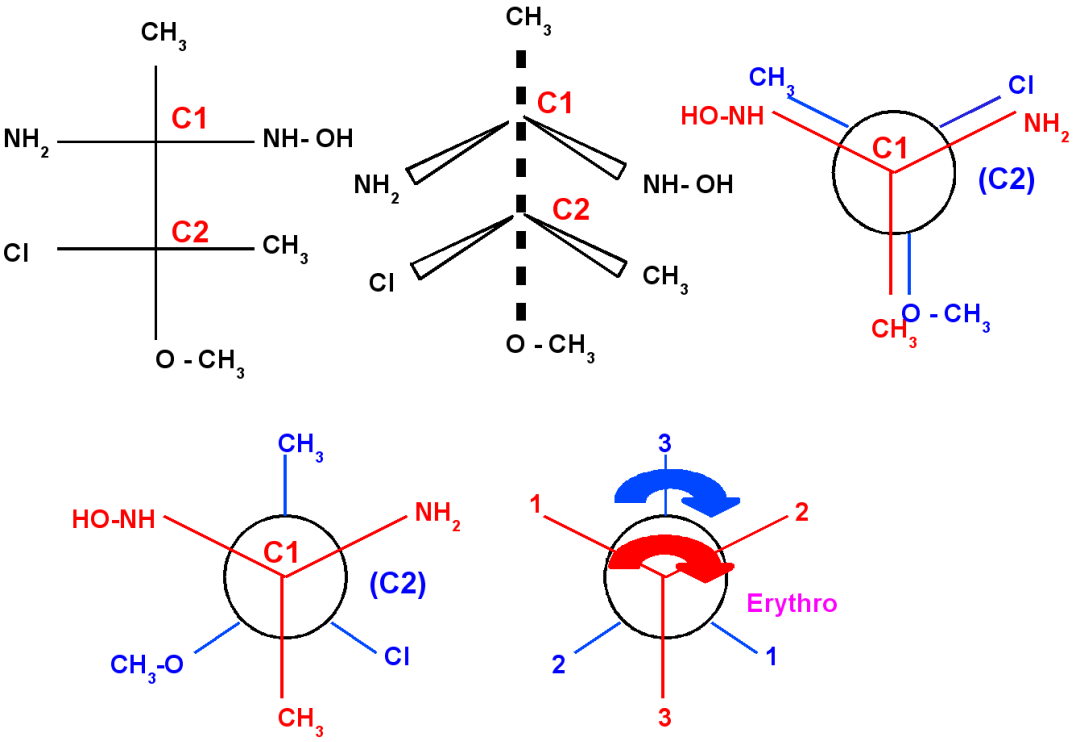






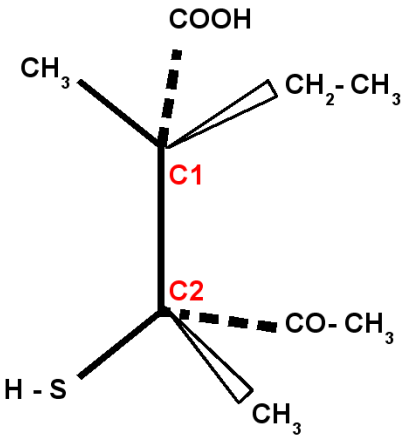


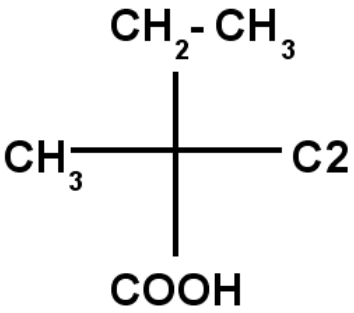
C1 et C2 sont de configurations différentes donc UNLIKE

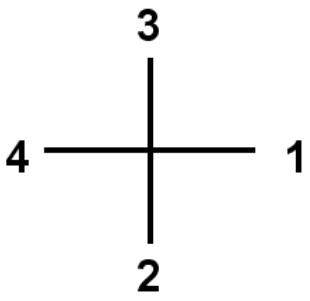


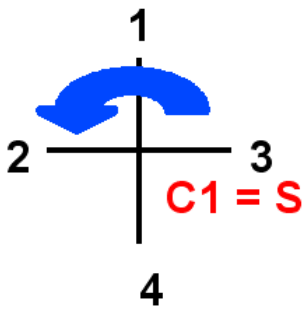
<u>Remarque</u> : Dans ce cas il serait beaucoup plus simple de représenter au hasard une forme quelconque en Newman, de vérifier ses configurations, d'éventuellement les modifier puis de regarder si c'est thréo ou erythro.

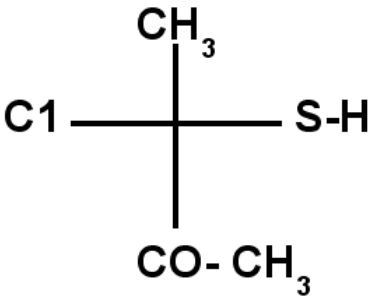
MOLECULE D

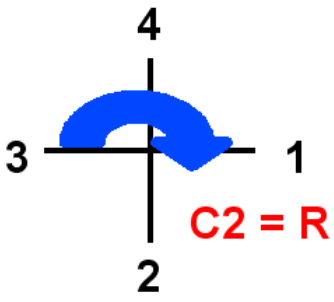




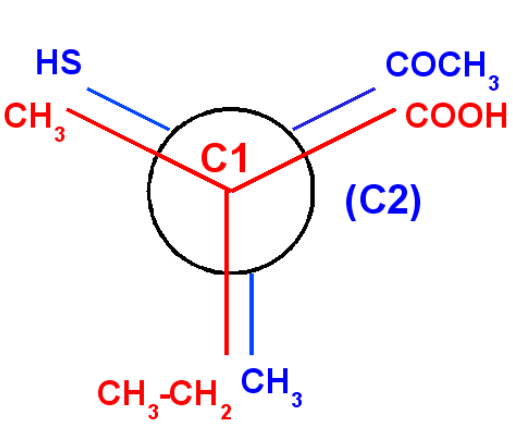


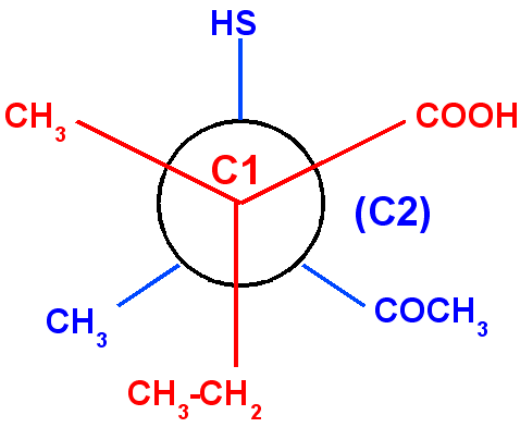


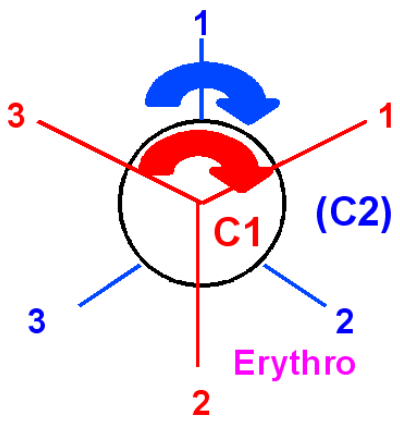




C1 et C2 sont de configurations différentes donc UNLIKE


HS
COCH3
CH3
COOH
C1
(C2)
CH3-CH2
CH3


HS
CH3
COOH
C1
(C2)
CH3
COCH3
CH3-CH2


1
3
1
C1
(C2)
3
2
Erythro
2