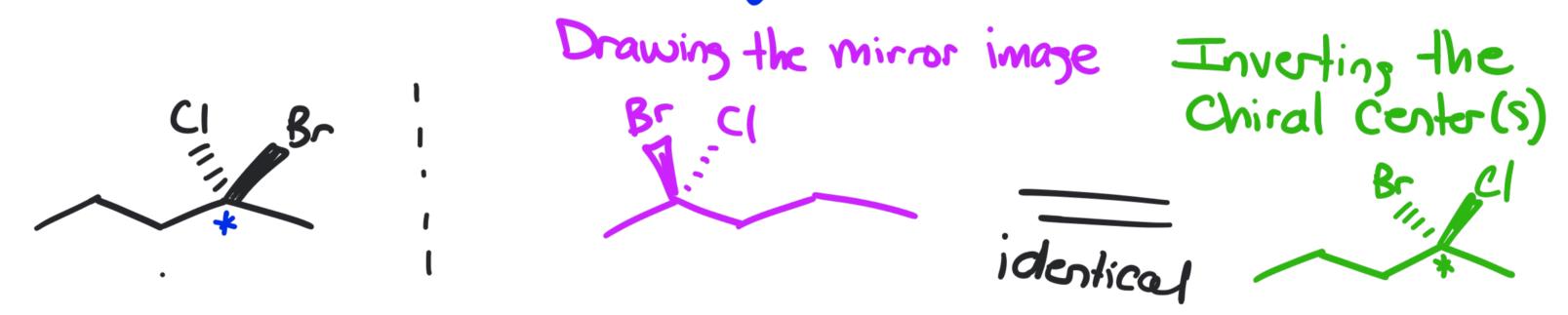
## Review

· A Chiral molecule is non-superimposable on its mirror image.

a pair of enantioners

- · A molecule with one chiral center is always Chiral.
- · You can draw an enantioner by:

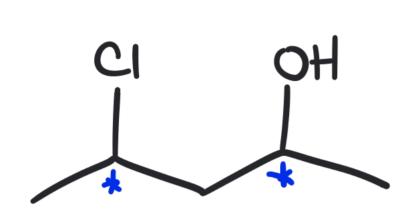


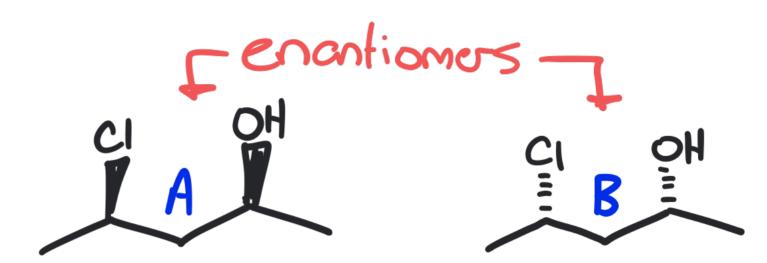
·An achiral molecule does not have on enontromer

4 it will be superimposable on its mirror image.

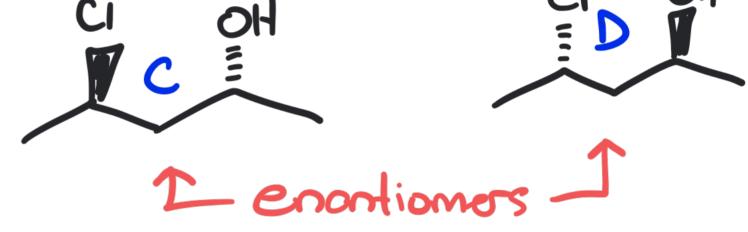
(identical to)

## Compounds with 2 or More Chiral Centers





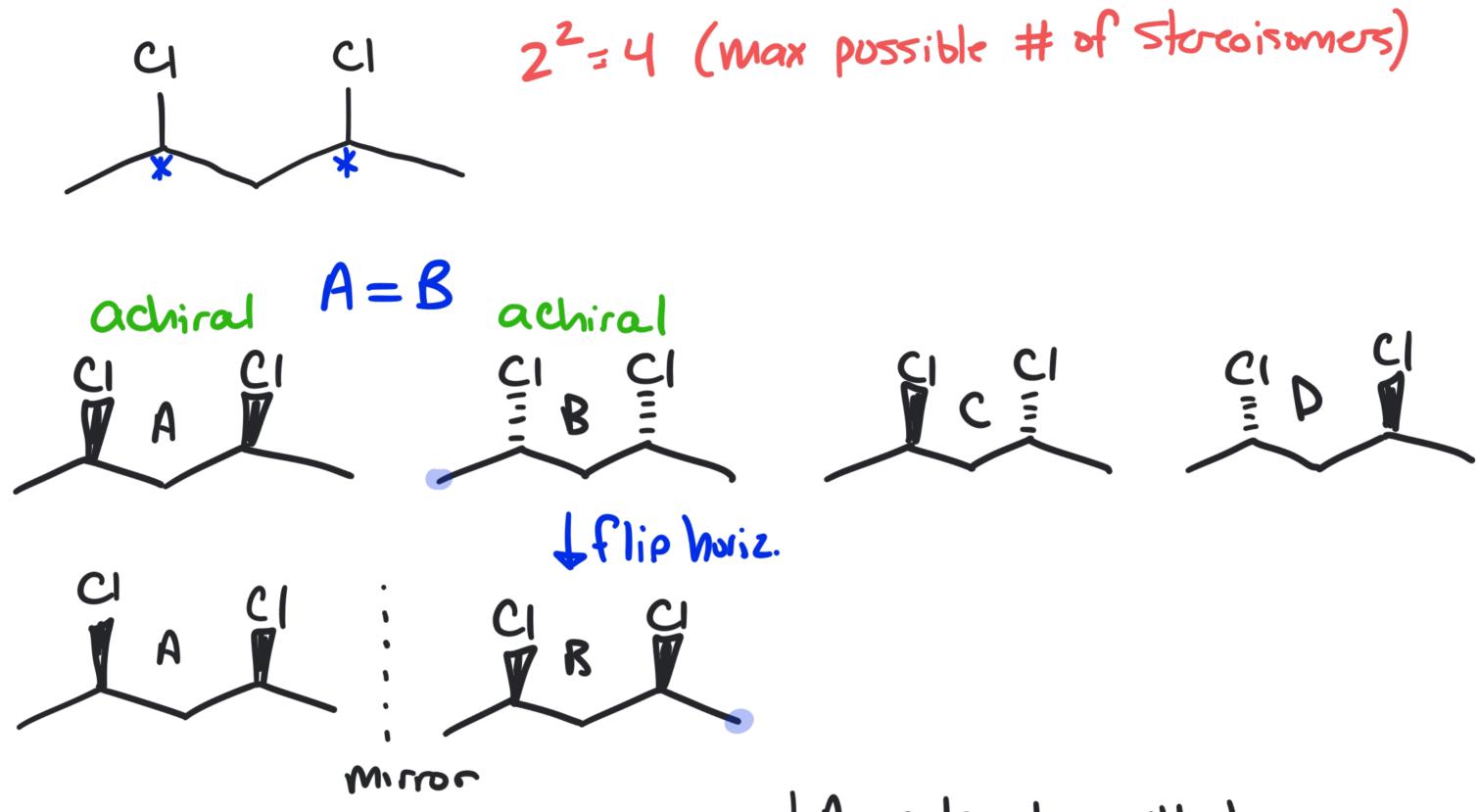
\* Encationers - pair of non-Superimposable mirror images.



APC, A+D, B+C, B+D pairs of non-superimposable, non mimor images

\* One or More, but Not all Chiral

Centus are inverted

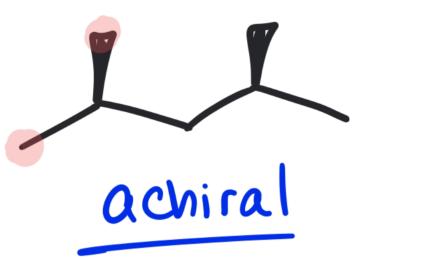


Not examinate, but identical A is superimposable on its Minor image B No examinate = achiral A molecule with two or more Chiral centers can be achiral due to a plane of Symmetry.

CL CL Meso Compound

Symmetry

no Chiral centos



Br C/ No Chiral Centers achiral

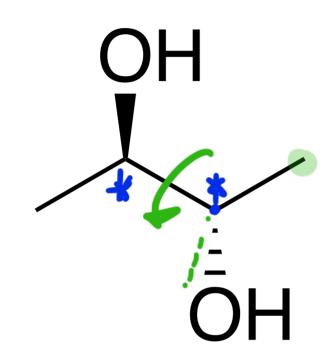
OH CH CH "MOSD achiral"

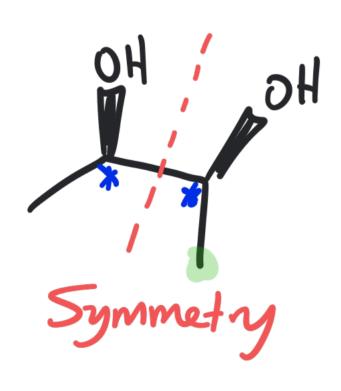
Symmetry

achiral -> meso compound

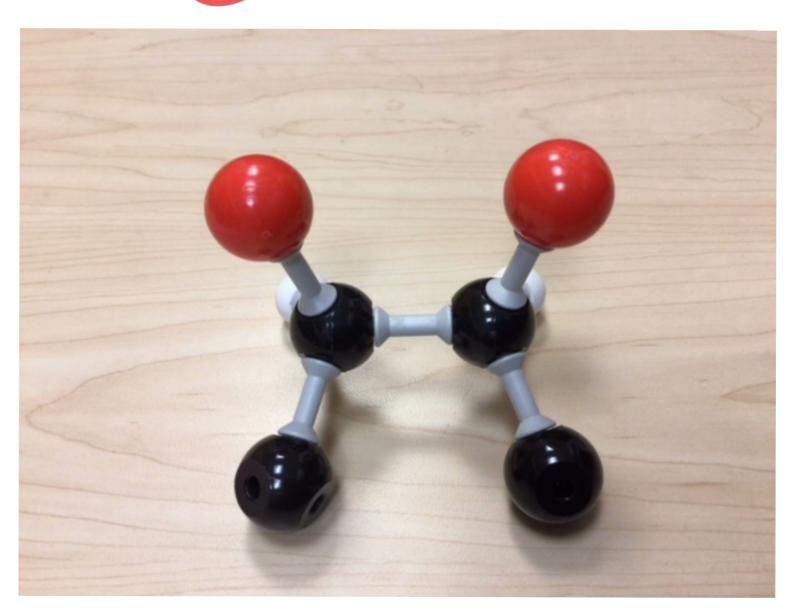
Br

## How would you best classify the molecule shown?



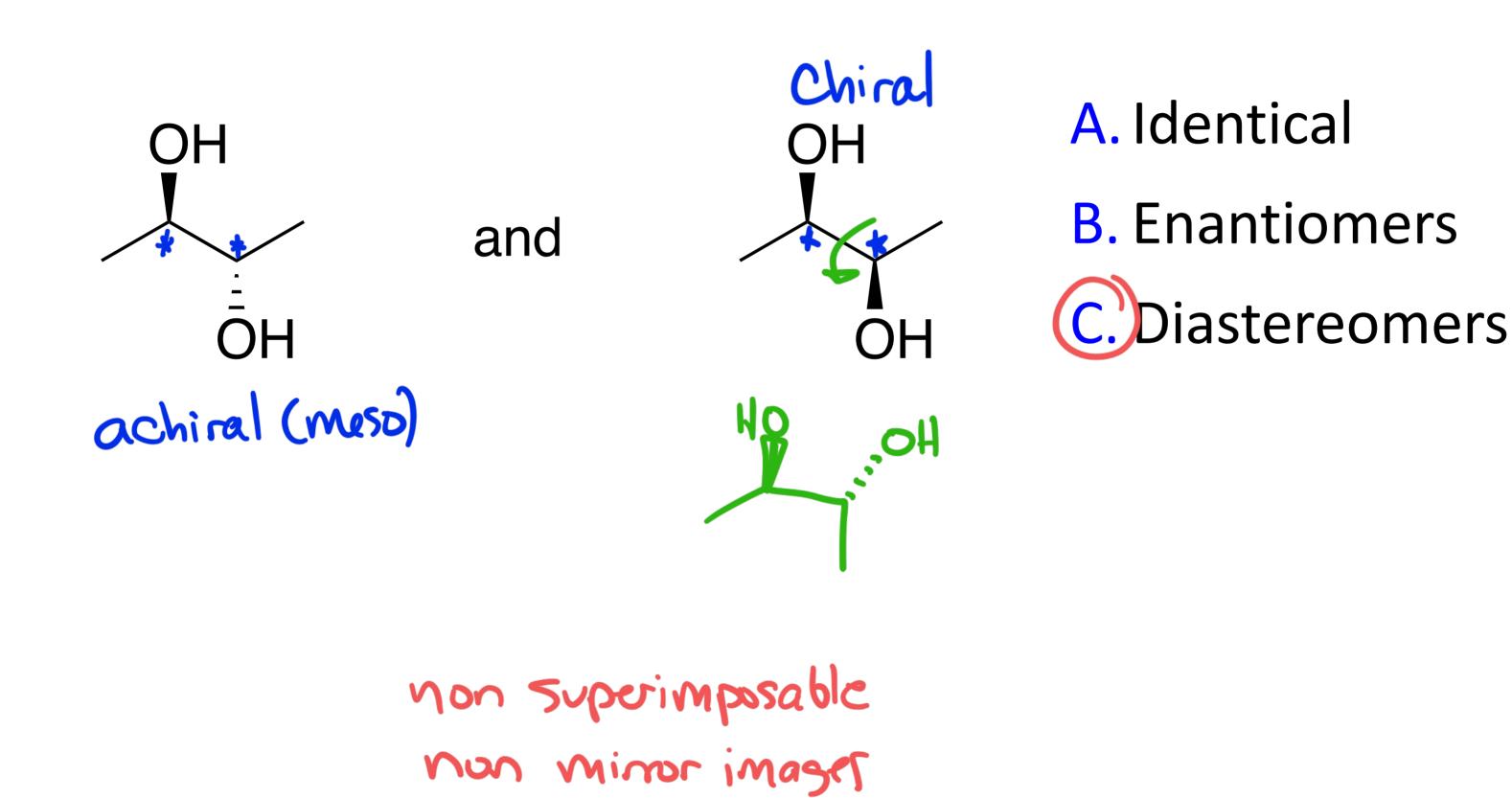


- A. Chiral
- **B.** Achiral
- C. Achiral (meso)



Does this molecule have an enantiomer?

What is the relationship between the two compounds shown?



## Does this molecule have an enantiomer?

What is the relationship between the two molecules?

