

Organic Chemistry I
Test 1 Isomers/Resonance Recognition Practice.

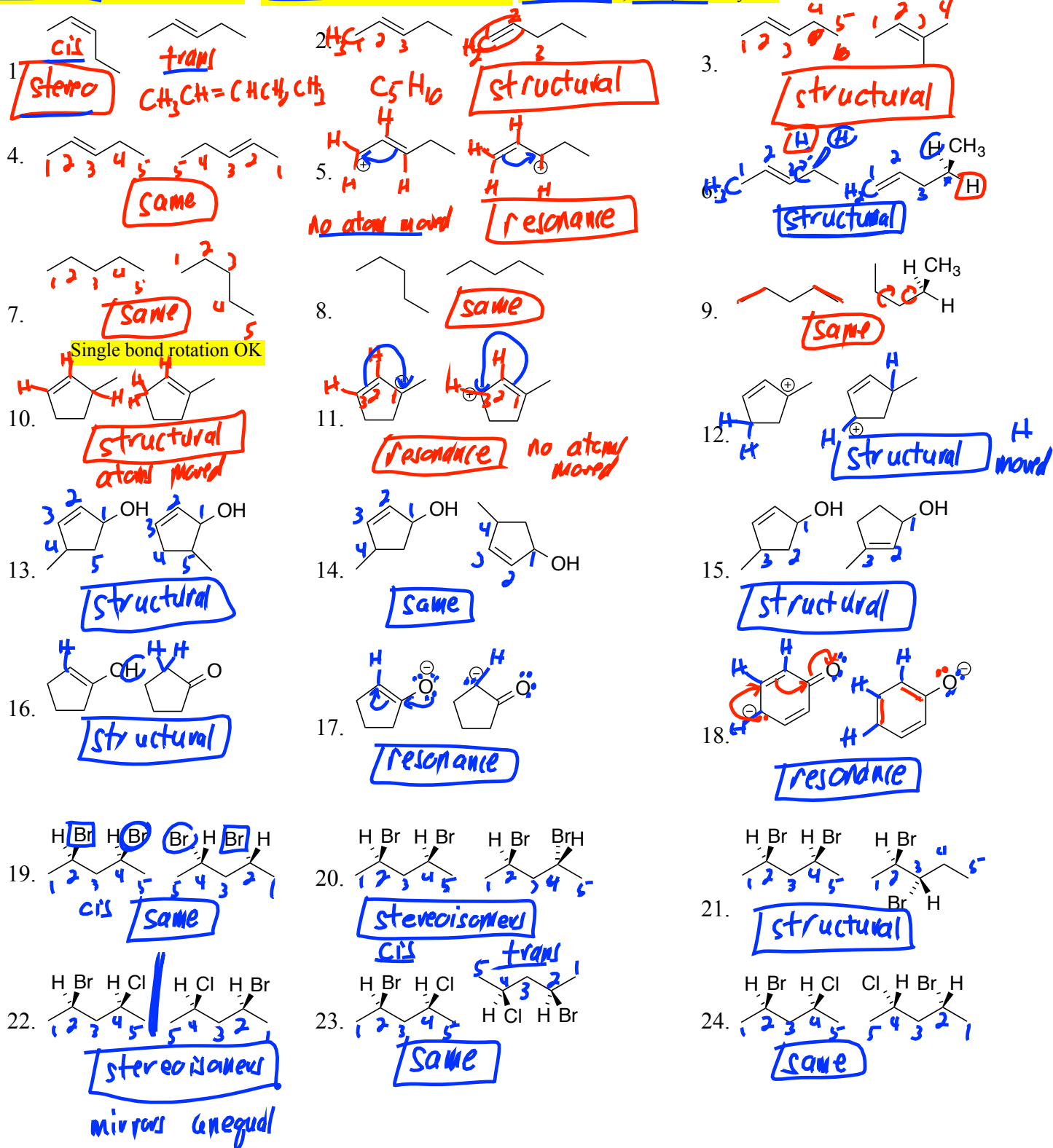
Note: You should be able to practice the first page fairly early during the class lectures.

- The second page you won't be able to process until almost the end, after completing dealing with Newman Projections and Cyclohexane Chair conformations.

Same name, condensed formula.
But atoms can't be superimposed, even by single bond rotation.
Two families:
1. Unequal mirror images (enantiomers)
2. Cis/trans (diastereomers)

For the following pairs, classify the relationship between each pair as either:

- same compound
 - structural isomers
 - resonance structures
 - stereoisomers
- Remember, single bonds can rotate, but double bonds can't.
Different condensed formula, Different name
No atoms move, formal charge, double bonds, lone pairs may.

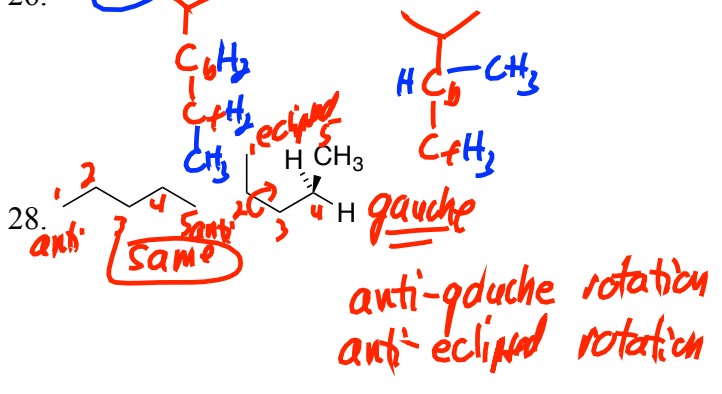
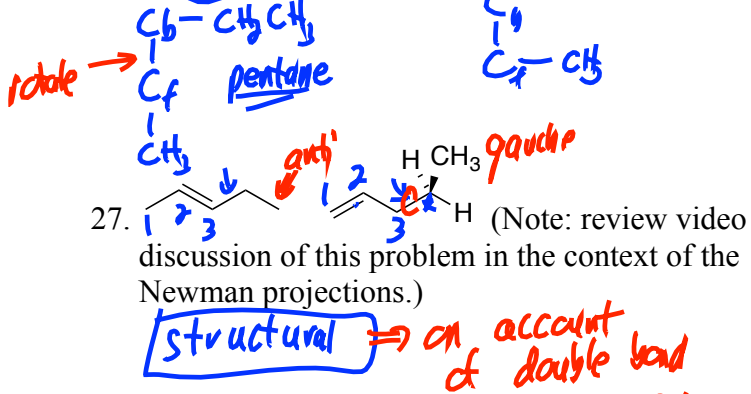
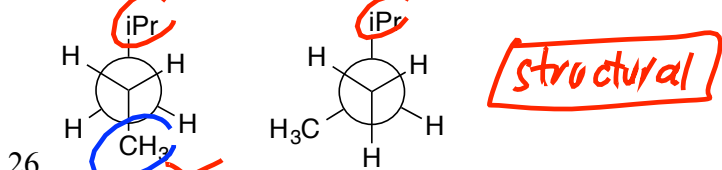
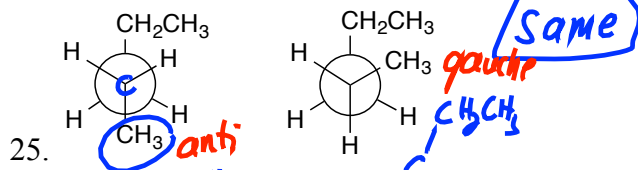


Newman

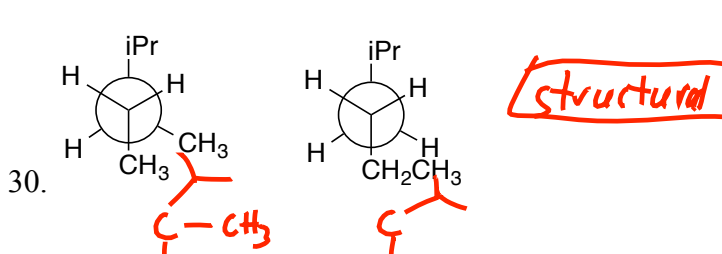
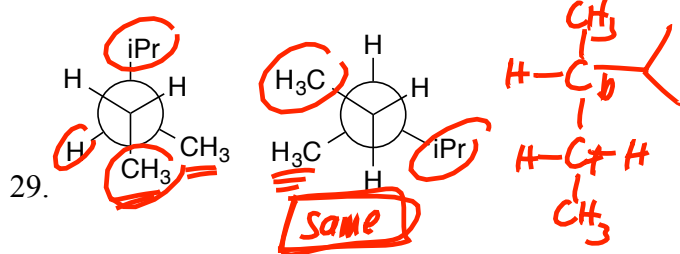
For the following pairs, classify the relationship between each pair as either:

- same compound
- structural isomers
- resonance structures
- stereoisomers

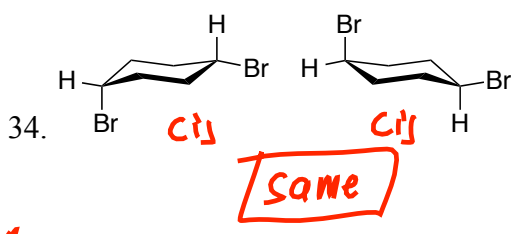
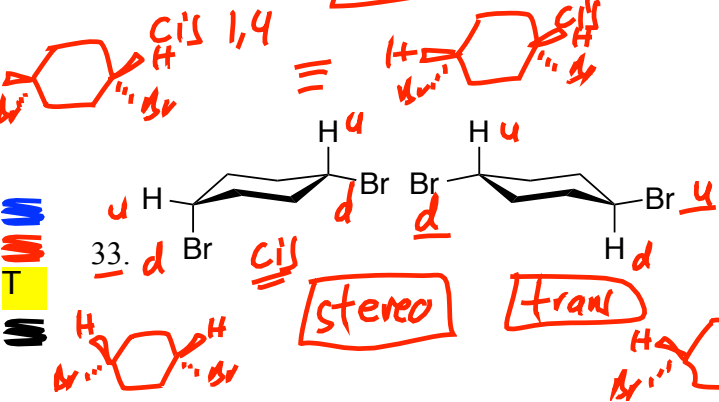
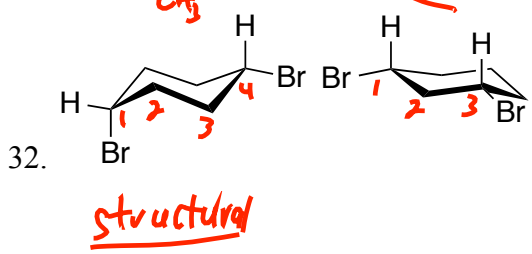
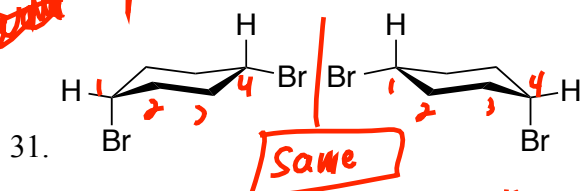
M T M M



M T M M



~~Cyclohexane~~ Cyclohexane



M T M M

