



ScienceGuyz

CHEM 2212

Remembering First Semester Organic Chemistry

Having Trouble? Watch our weekly workshops and get ahead! Workshops last approximately 2 hours. Private tutoring is also available by appointment on our website, www.scienceguyz.com.

Need Help All Semester? Register for the [Semester Plan](#) which includes **Workshops, Exam Review Sessions, Mock Exams, a Lab Review Session, and Office Hours**. Please see our website for pricing.

Current Course Offerings at Science Guyz:

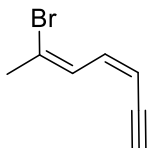
- General Chemistry 1 - CHEM 1211
- General Chemistry 2 - CHEM 1212
- Physics 1 – PHYS 1111
- Physics 2 – PHYS 1112
- Organic Chemistry 1 - CHEM 2211
- Organic Chemistry 2 - CHEM 2212
- Biology 1 – BIOL 1107

For hours of operation, important dates and other info, check our regularly updated website:

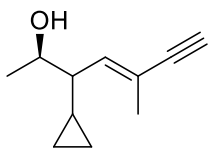
www.scienceguyz.com

Practice Problems – test your understanding and try these problems out on your own! An answer key will be posted to the Science Guyz website.

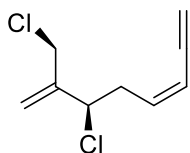
1. Provide the IUPAC name for each of the following compounds.



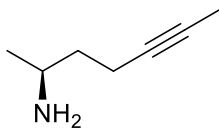
(3Z,5Z)-6-bromohepta-3,5-dien-1-yne



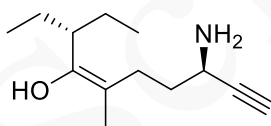
(R,E)-3-cyclopropyl-5-methylhept-4-en-6-yn-2-ol



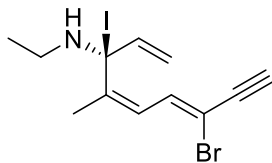
(R,Z)-3-chloro-2-(chloromethyl)octa-1,5-dien-7-yne



(S)-hept-5-yn-2-amine

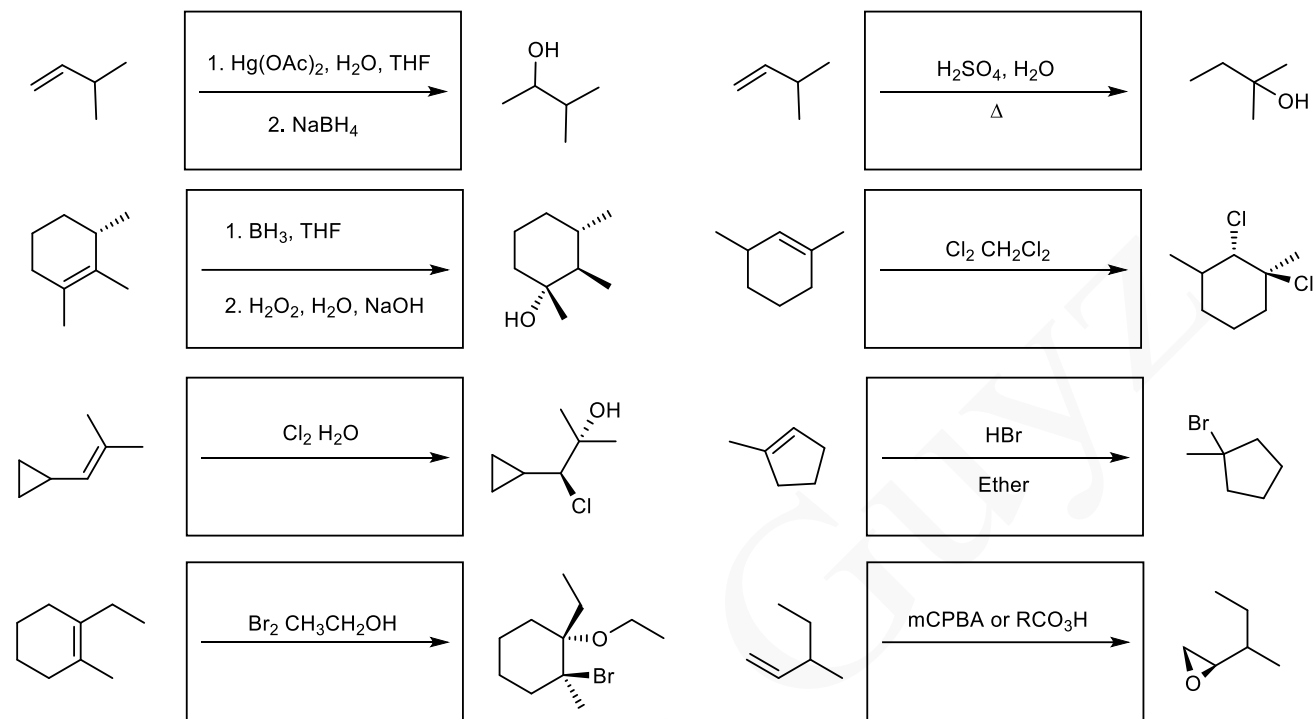


(R,E)-8-amino-3-ethyl-5-methyldec-4-en-9-yn-4-ol

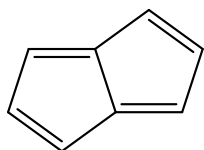


(R, 4Z,6Z)-bromo-N-ethyl-3-iodo-4-methylnona-1,4,6-trien-8-yn-3-amine

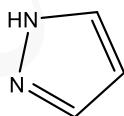
2. Provide the missing reagent(s) for the following transformations.



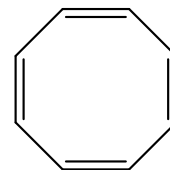
3. Classify each compound as aromatic, antiaromatic, or nonaromatic.



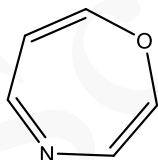
Anti-Aromatic



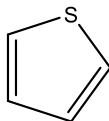
Aromatic



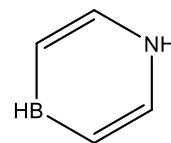
Non-Aromatic



Non-Aromatic

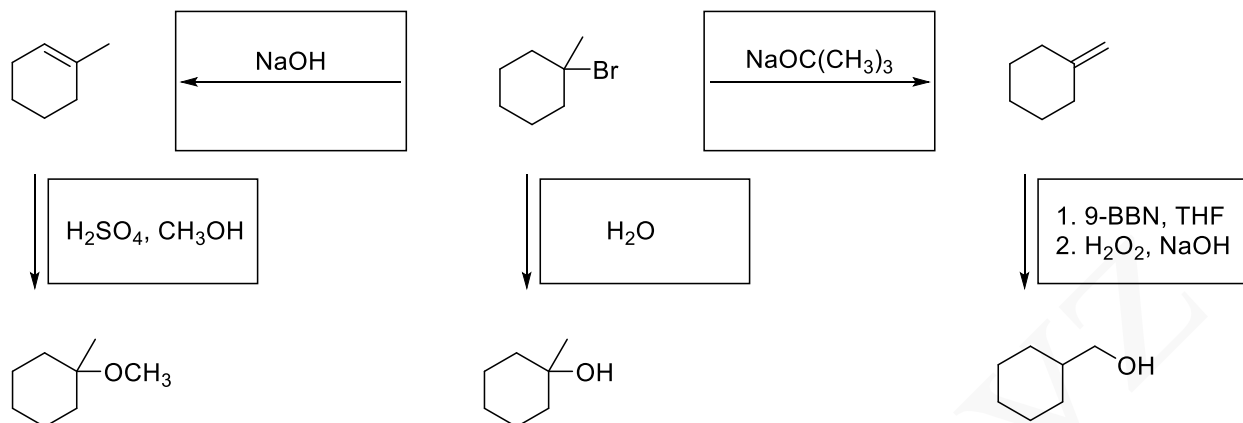


Aromatic

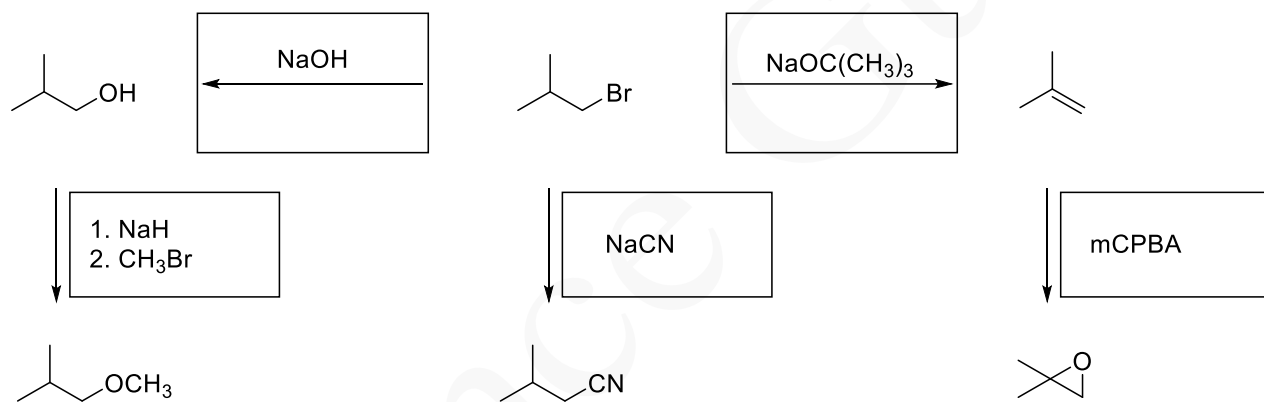


Aromatic

4. Provide the missing reagent(s) for the reactions shown below.



5. Provide the missing reagent(s) for the reactions shown below.



6. Propose a synthesis for the following transformation.

