

Chemistry 2541, Fall 2015

Quiz 6

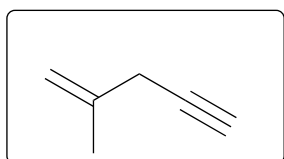
(30 points)

Important notes:

- Please use the provided Scantron form for your answers; you can keep the sheet with the questions and can use it as scratch paper
- Do not forget to write your name on the Scantron form
- You will not receive credit for unmarked answers or for more than one mark on answer line
- Your scores will be posted on eGradebook; graded Scantron forms will not be returned to students.

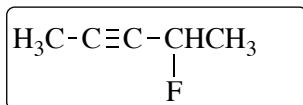
Questions 1-10: Please mark the appropriate box on the front of the Scantron form (3 pts each).

1. What is the **IUPAC name** for the compound shown in the box?



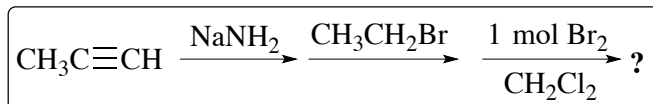
- A) (Z)-2-methyl-5-pentyn-1-ene B) 2-methyl-1-hexen-4-yne
 C) 2-methyl-1-penten-4-yne D) 4-methyl-1-hexyn-4-ene

2. What is the **IUPAC name** for the compound in the box?



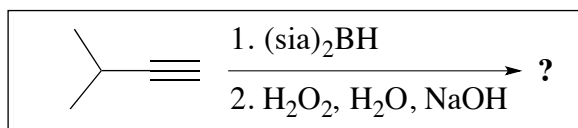
- A) 5-fluoro-4-methyl-2-pentyne B) 4-fluoro-2-pentyne
 C) 1-fluoro-2-methyl-3-pentyne D) 2-fluoroethyl-3-pentyne

3. What is the **main product** of the sequence of reactions shown in the box?



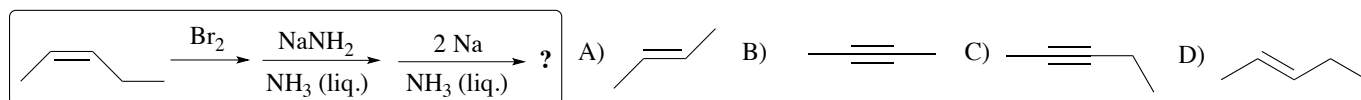
- A) (Z)-2,3-dibromo-2-pentene B) 2,3-dibromopentane
 C) (E)-2,3-dibromo-2-pentene D) 3,3-dibromopentane

4. What is the **main product** of the reaction shown in the box?



- A) B)
 C) D)

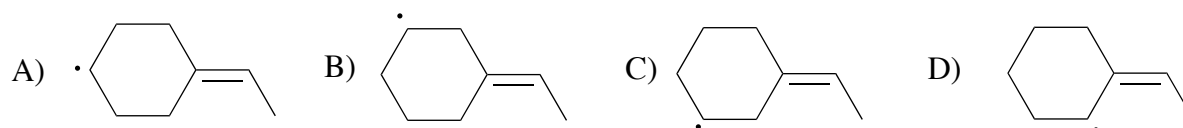
5. What is the **main product** of the reaction shown in the box?



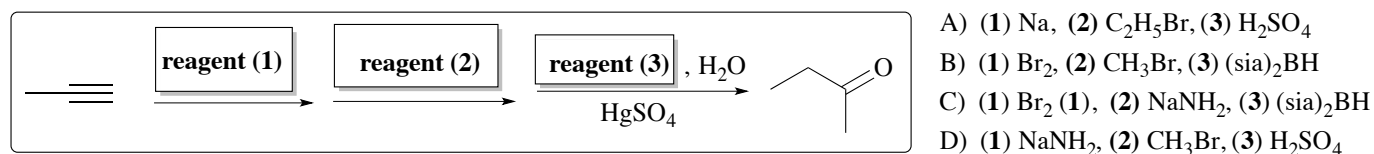
6. What is the common name of **trichloromethane**?

A) methylene chloride B) vinyl chloride C) carbon trichloride D) chloroform

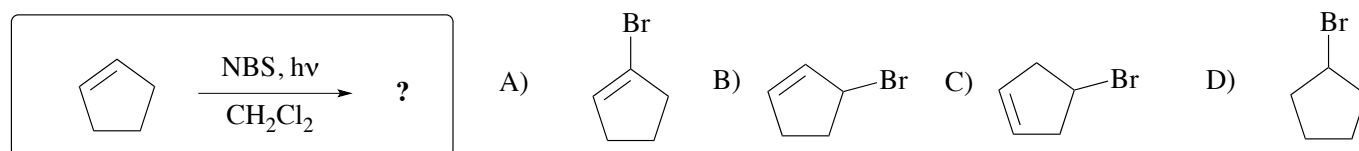
7. Which is the most stable **radical**?



8. Which sequence of **reagents** can be used for the reaction shown in the box?



9. What is the **main product** of the reaction shown in the box?



10. Which **reactant** is missing in the reaction shown in the box?

