

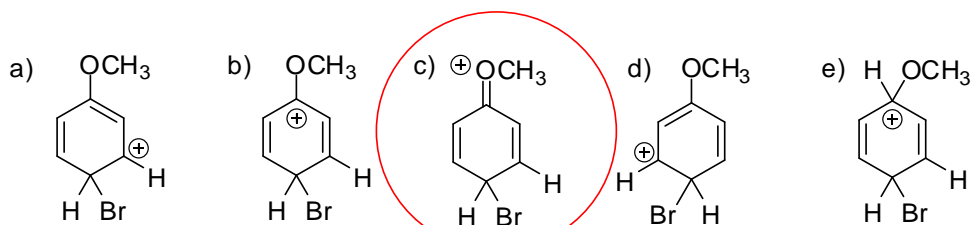
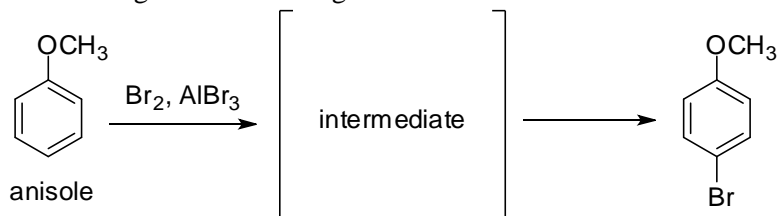
Organic Chemistry 2

Quiz #3

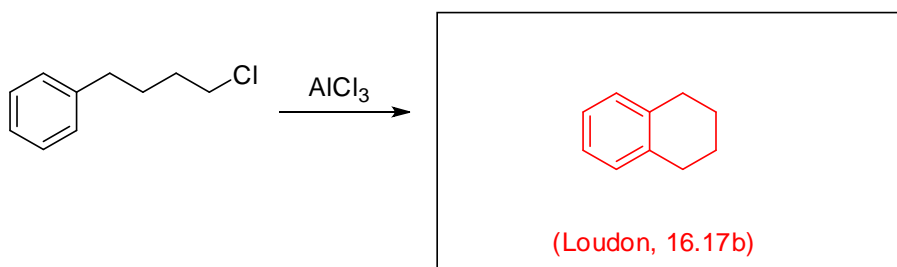
February 12, 2010

Name: Frosty the Snow Man

1. Circle the one resonance structure which best demonstrates the importance of the methoxy group in anisole's regioselective halogenation.



2. Provide the product of the following reaction. (2 pts.)



3. Which one statement best characterizes why electrophilic aromatic substitution reactions to benzene follow a different path than electrophilic addition reactions to alkenes?

- a) Benzene has six π electrons, while alkenes only have two.
- b) Benzene has a π electron cloud that is distributed around all six atoms.
- c) Benzene has a strong energetic preference to return to aromaticity.**
- d) Benzene has only one hydrogen on each carbon, while alkenes may have more than one hydrogen.
- e) Benzene has literally "been scene" on Jersey Shore....need I say more.