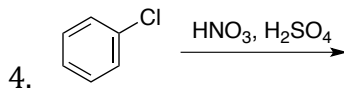
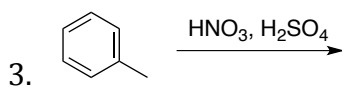
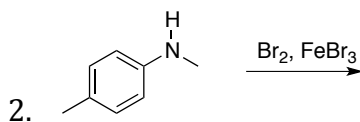
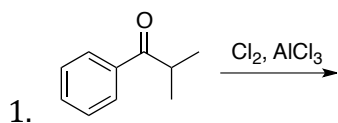
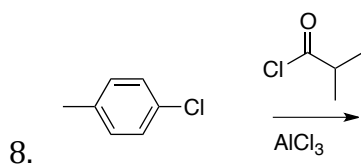
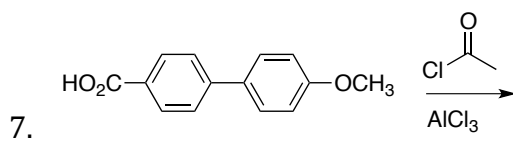
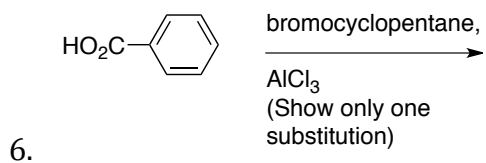
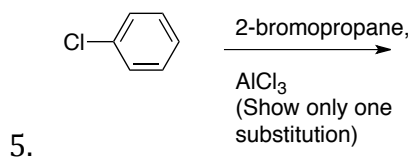


Aromatic Substitution Reaction Mechanisms

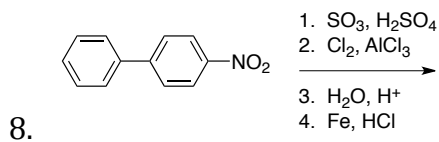
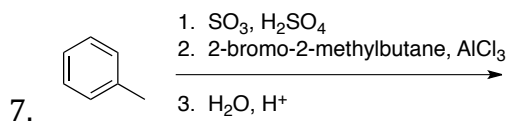
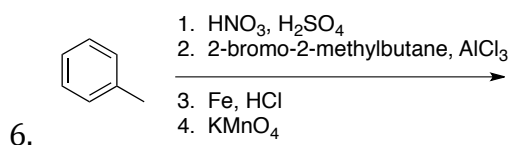
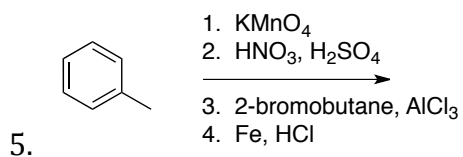
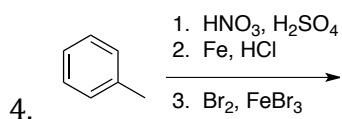
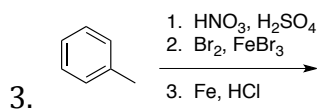
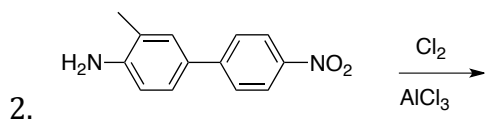
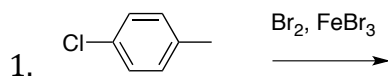
- Draw the major product and the mechanism for each of the following reactions, using detailed arrow-pushing.
- Draw the resonance structures for carbocationic intermediate.

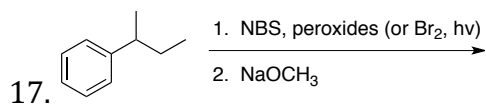
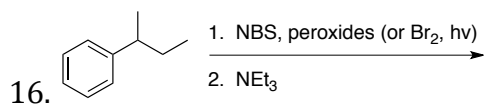
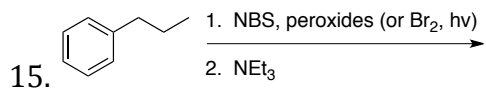
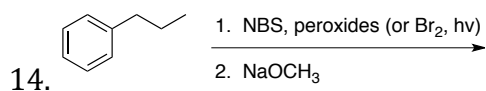
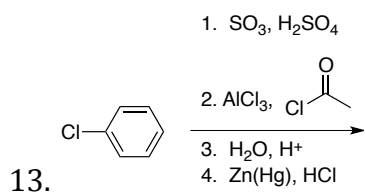
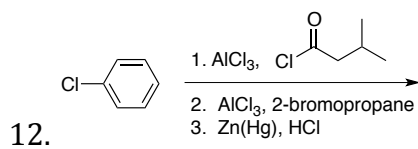
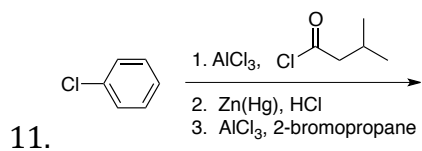
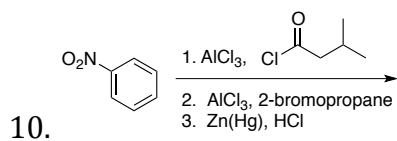
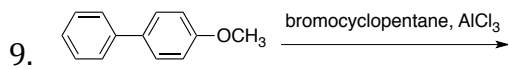
Note: See pages 3 and 4 for more production prediction problems.
See page 5 for some synthesis design problems.





Draw the major product for the following reactions.





Design Syntheses for the following transformation: