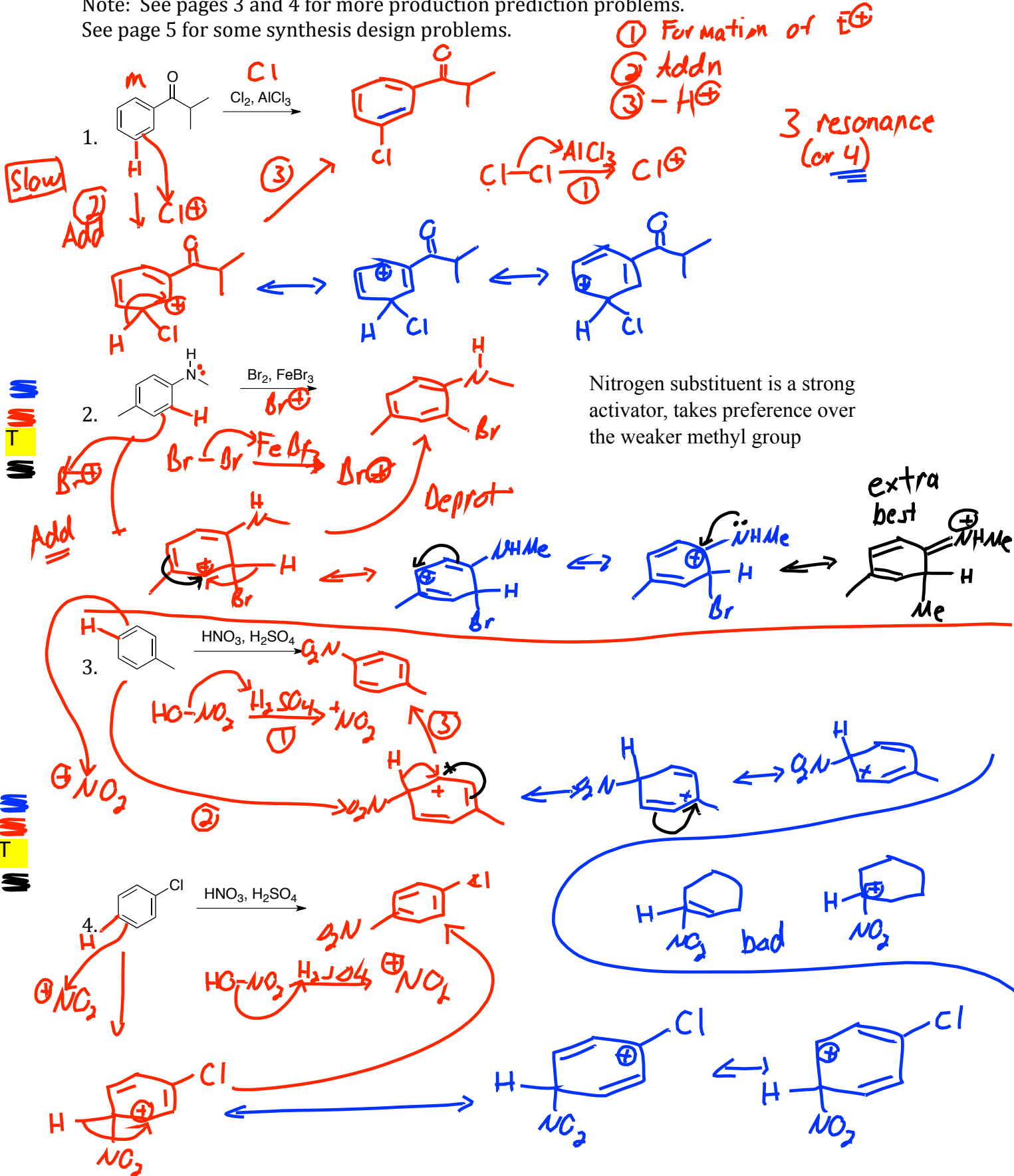
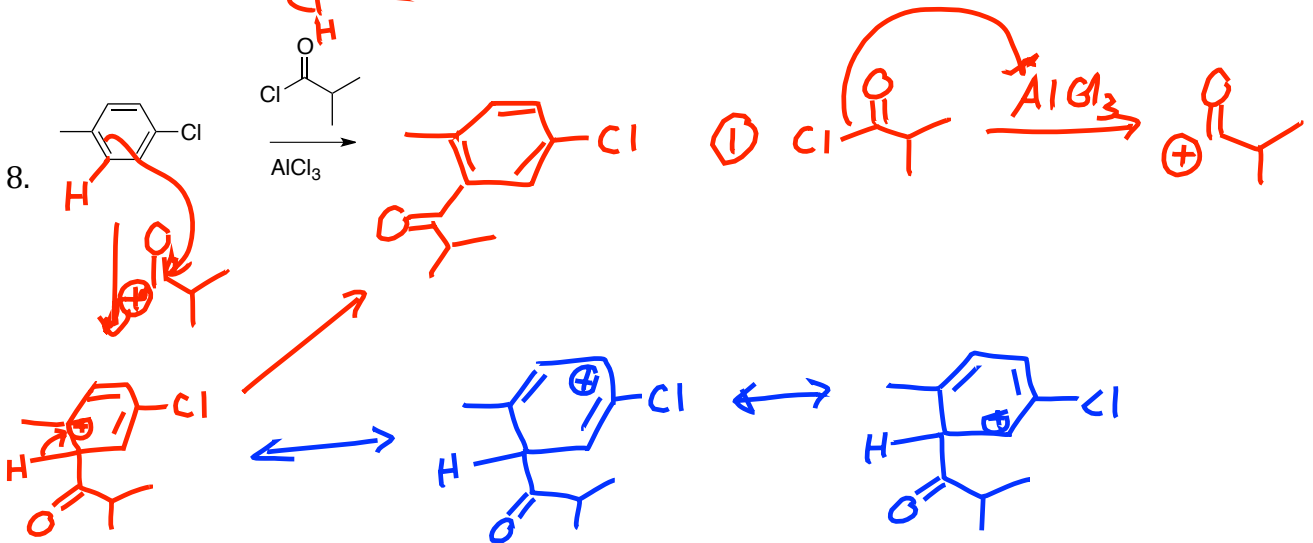
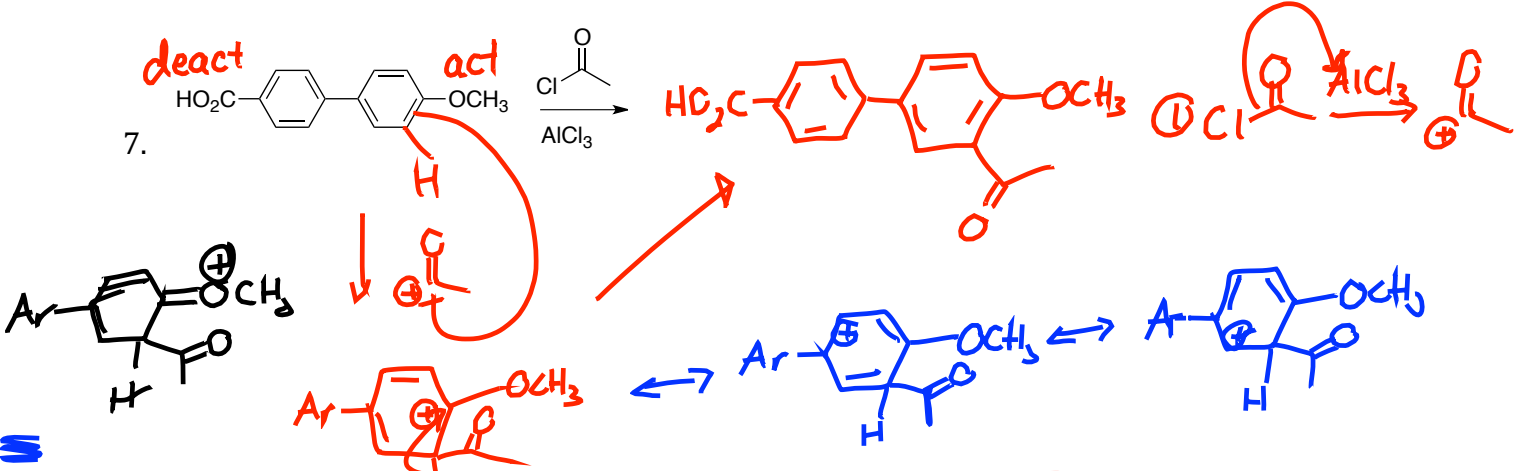
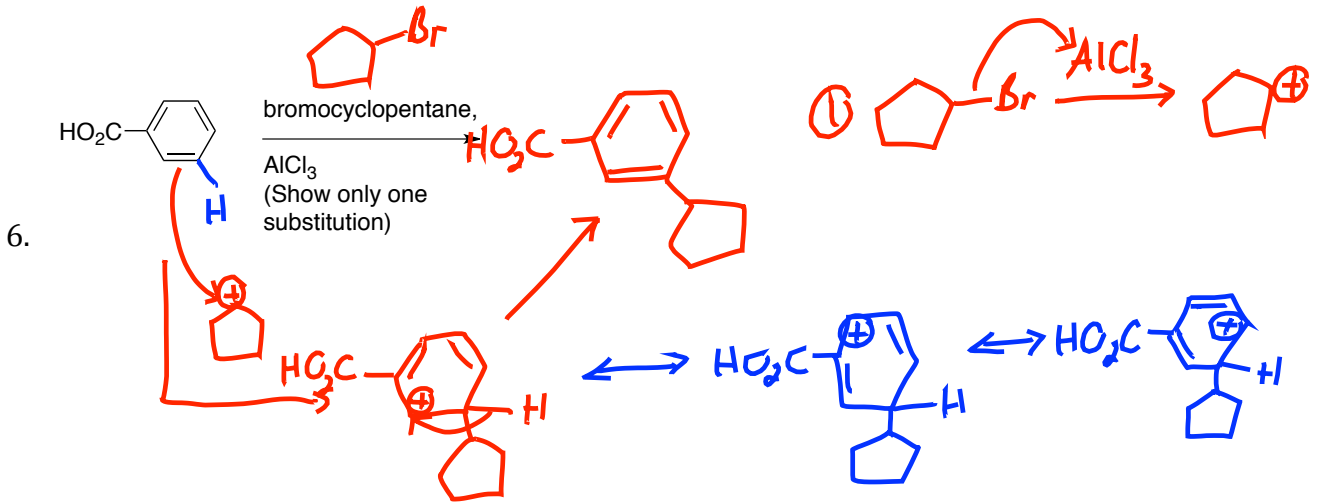
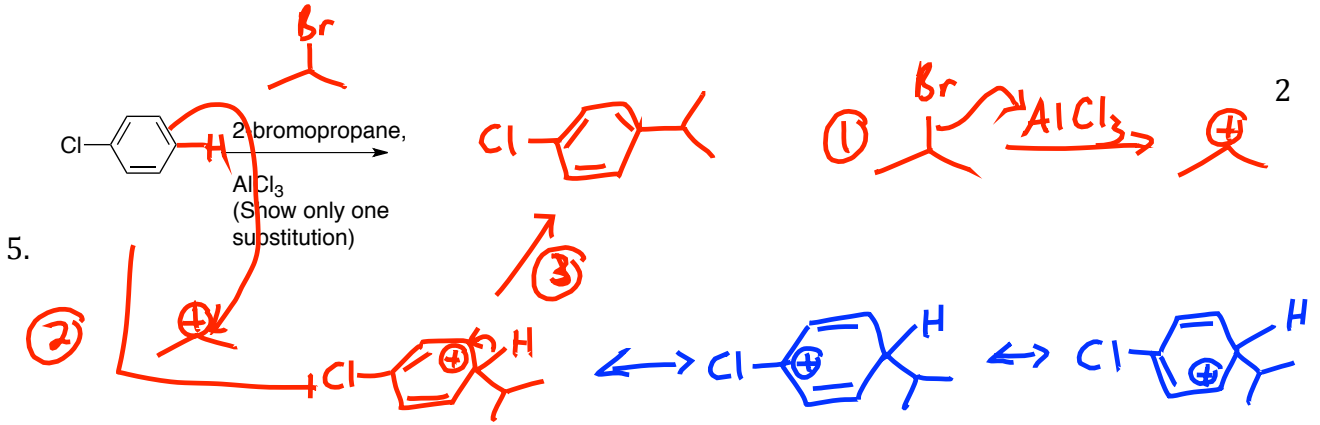


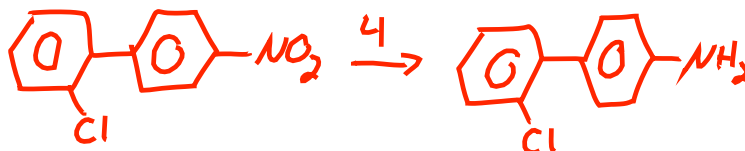
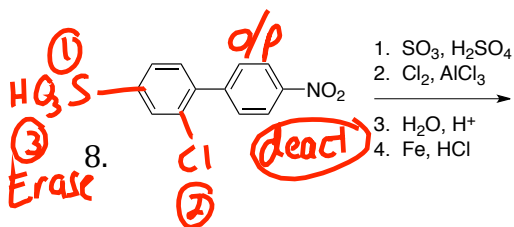
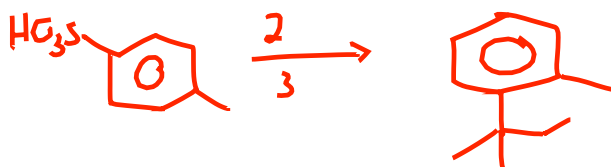
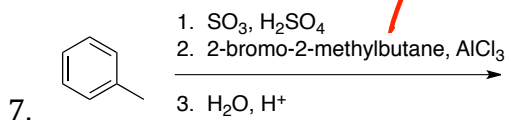
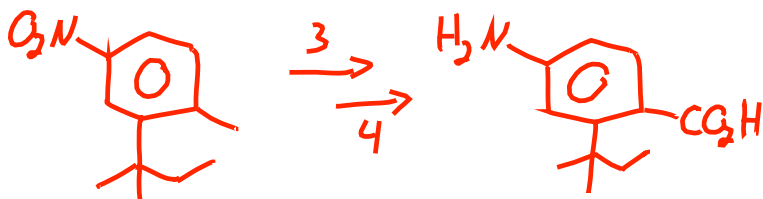
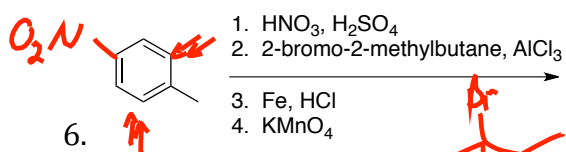
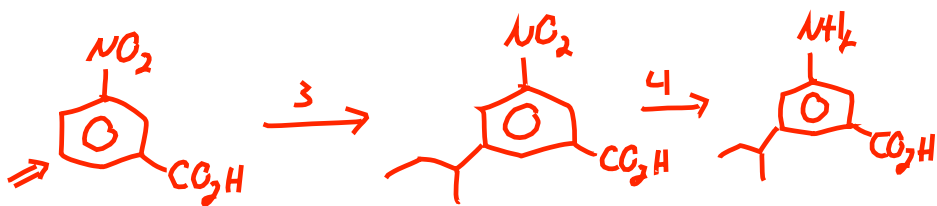
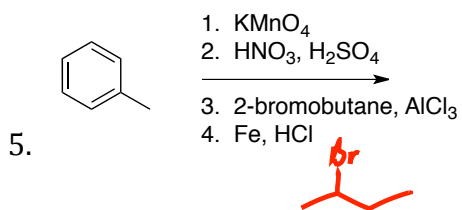
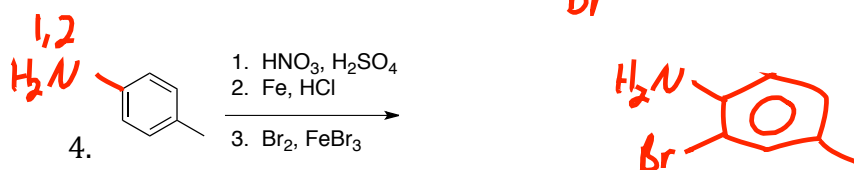
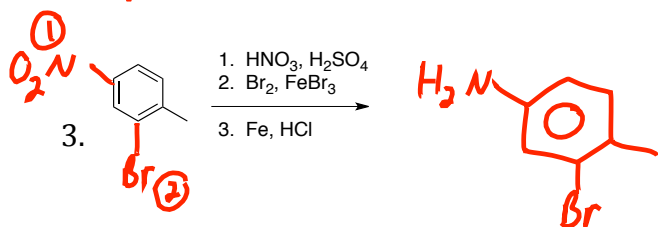
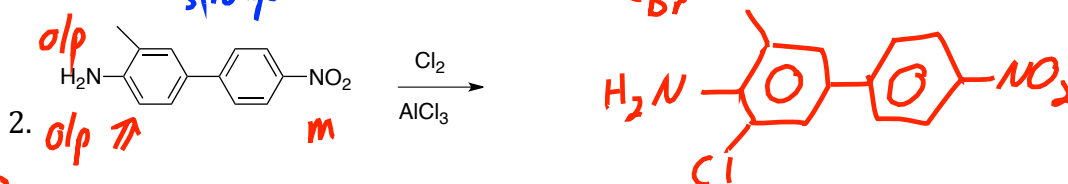
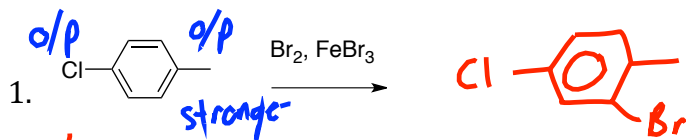
### Aromatic Substitution Reaction Mechanisms

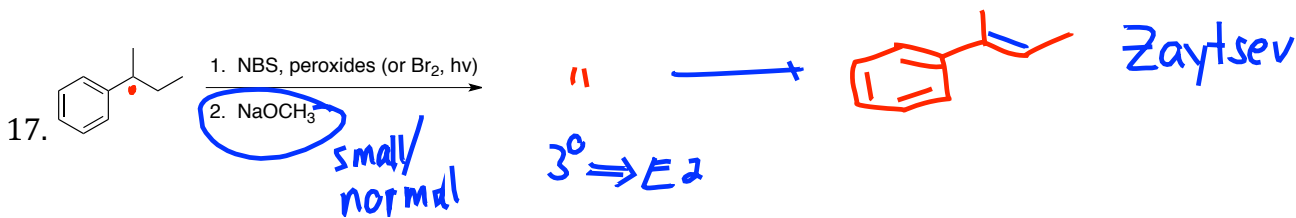
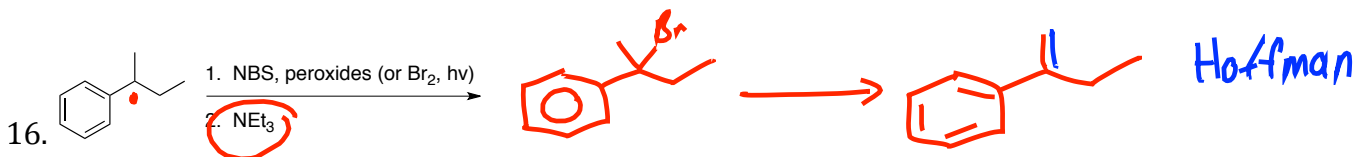
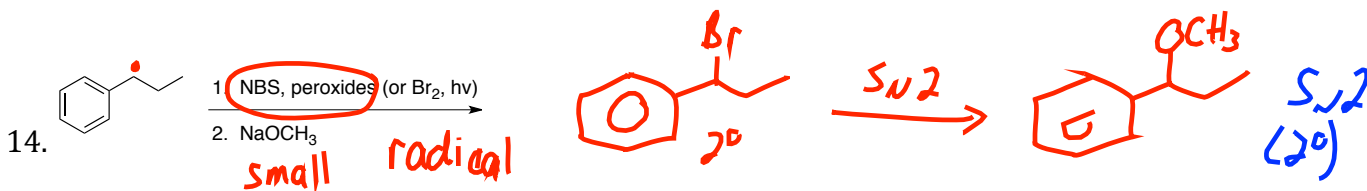
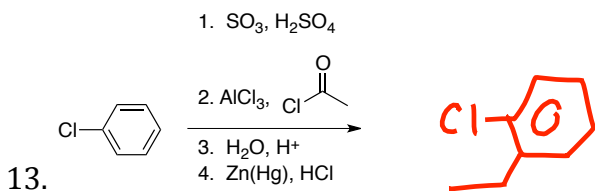
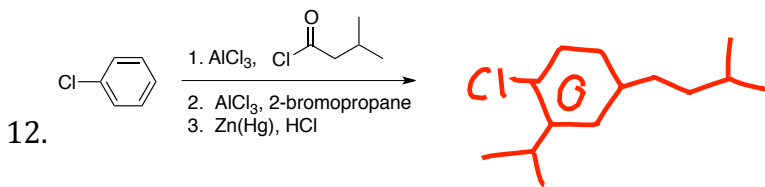
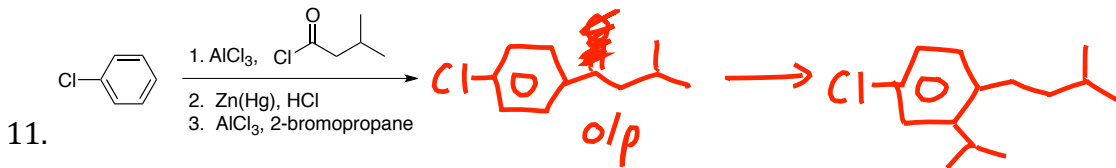
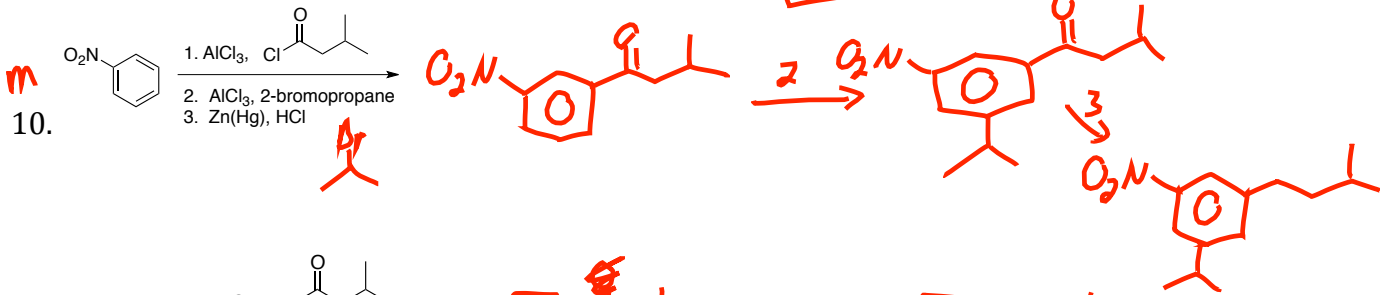
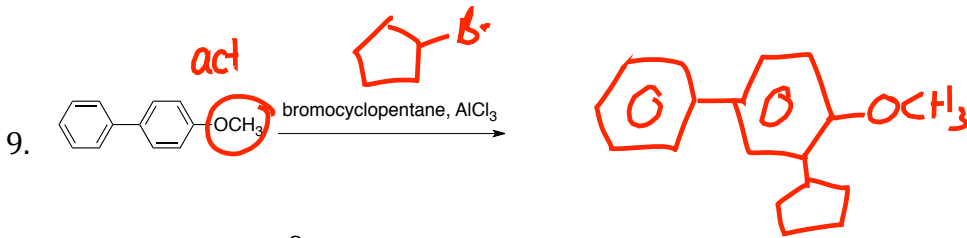
- Draw the major product and the mechanism for each of the following reactions, using detailed arrow-pushing.
  - Draw the resonance structures for carbocationic intermediate.
- Note: See pages 3 and 4 for more production prediction problems.  
See page 5 for some synthesis design problems.





Draw the major product for the following reactions.





**Design Syntheses for the following transformation:**

