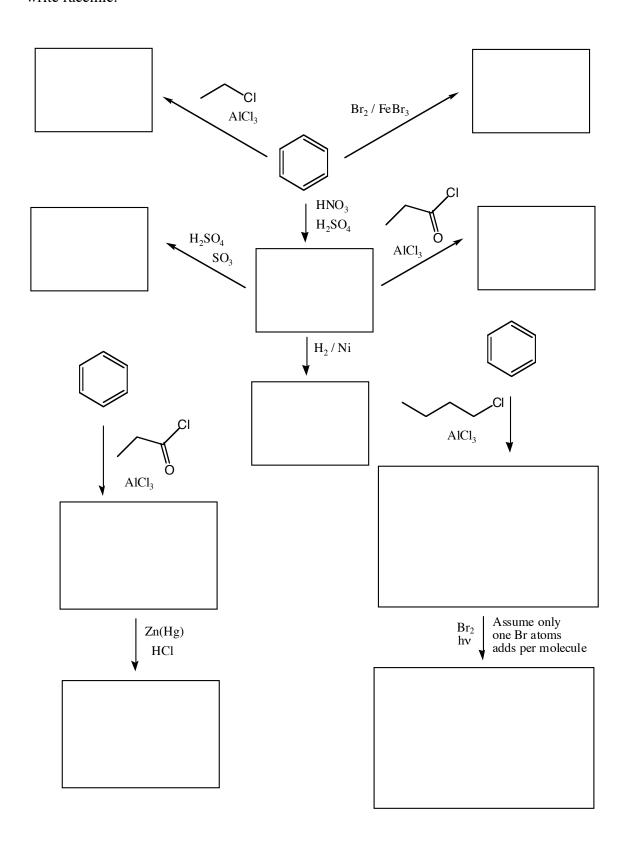
NAME (Print):			D	Chemistry 310N Dr. Brent Iverson	
SIGNATURE:			Н	xtra Aromatic omework pril 25, 2008	
	Please print the first three letters of your last name in the three boxes				

1. For each of the following, circle the derivatives that have a "bad" group on them, draw two boxes around the derivatives that have a "good" group on them, and draw nothing around the derivatives that have an "ugly" group on them.

2. For each of the following arenium ion intermediates, draw all the significant resonance contributing structures.

3. For each of the following, fill the molecule in the box that is the product or products of the given reaction. When a racemic mixture of enantiomers are formed, draw both using wedges and dashes and write racemic.



4. For each of the following, fill the molecule in the box that is the product or products of the given reaction. When a racemic mixture of enantiomers are formed, draw both using wedges and dashes and write racemic.

5. (cont.) Fill in the boxes with the product or products of each reaction. You must draw both ortho and para products if that is appropriate. These are a little bit harder than on the previous page.

6. Show reagents and intermediates synthesized along the way that allow you to produce the product from the given starting material. Assume you can isolate either the ortho or para product in pure form, even though both are usually produced together.

7. Show reagents and intermediates synthesized along the way that allow you to produce the product from the given starting material. Assume you can isolate either the ortho or para product in pure form, even though both are usually produced together.

8. Show reagents and intermediates synthesized along the way that allow you to produce the product from the given starting material. Assume you can isolate either the ortho or para product in pure form, even though both are usually produced together.

