closed book, closed notes, model kits allowed

1. Provide the reagents for each transformation over the arrows. These transformations can be accomplished in a single step 3 points each

- 2. Provide the reagents for each two-step synthesis. A complete answer will require you to make an intermediate.
 Draw the structure of the intermediate in the box.

 - Over the arrows, indicate conditions for synthesizing the intermediate and the final product.

7 points each

(a)