

Chemistry 30B Discussion - Week 8: Synthesis Problems - DCF

Propose a reasonable synthesis for the 3 compounds below from the given starting materials. Although you must use the starting materials given, you can use any reagents you feel are required. Each reagent may add no more than 4 carbons in your synthesis.

Notes:

- Provide reagents and intermediates, but NO MECHANISMS.
- The number of arrows between the starting material and product is meaningless. It has nothing to do with the number of steps required for the synthesis

Hints: (for these problems as well as the exam)

- Don't forget about the reactions you learned in 30A.
- Use the retrosynthetic analysis as discussed in lecture and section.
- A "good" synthesis uses the fewest steps with the fewest protecting groups required
- In most cases, there are better reagents than acid to use for synthetic steps
(Beware: I said most, NOT all)

