Chem 41c Quiz 5

Stoltz, Spring 2006 May 31, 2006

Provide a single simplifying disconnection for the following Target Molecules.

1.

2.

$$\stackrel{\circ}{ \longrightarrow} \stackrel{\circ}{ \longrightarrow}$$

3. Provide a detailed retrosyntheses for the following Target Molecule that arrives at starting materials of 4 carbons or less.

$$\xrightarrow{OH} \xrightarrow{OMe} \xrightarrow{OMe} CO_2R \longrightarrow \xrightarrow{I} CO_2R$$

Bonus (5 points)

Provide reagents for a forward synthesis of the last problem.

CO₂Me
$$\Delta$$

E H

CO₂R

1. LiAlH₄

2. Mel, Base

OMe

1. O₃, oxidative work-up

2. MeOH, HCI (Esterification)

MeO₂C

CO₂Me

TM

TA's: please give partial credit for #3 and the bonus.