CHE 173

Winter, 2005

Practice Quiz 7

M T W Th F Th nt.

(circle one)

1. Show the products that would form from each of the following reactions (10 pts).

(a)
$$\xrightarrow{\text{CH}_3}$$
 Br + 2Li $\xrightarrow{\text{Et}_2\text{O}}$

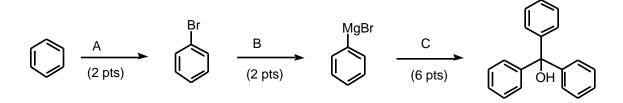
(b)
$$\begin{array}{c} O \\ \hline \\ -1. \text{ CH}_3\text{CH}_2\text{MgBr} \\ \hline \\ -2. \text{ H}_2\text{O}, \text{ H}^+ \end{array}$$

(c)
$$\left(\begin{array}{cccc} CuLi & Br \\ 2 & CH_3 \end{array}\right)$$
 Et_2O

(d)
$$\begin{array}{c} \text{1. 2CH}_3\text{CH}_2\text{MgBr} \\ \text{Et}_2\text{O} \\ \text{2. H}_2\text{O, H}^+ \end{array}$$

(a)
$$+ ICH_2ZnI \xrightarrow{Et_2O}$$

2. Provide the reagents and conditions that would effect each of the following steps (A-C) in the synthetic scheme shown below. (10 pts)



3. Show a reason able retrosynthetic analysis and synthesis for each of the target compounds shown below. (10 pts each)

