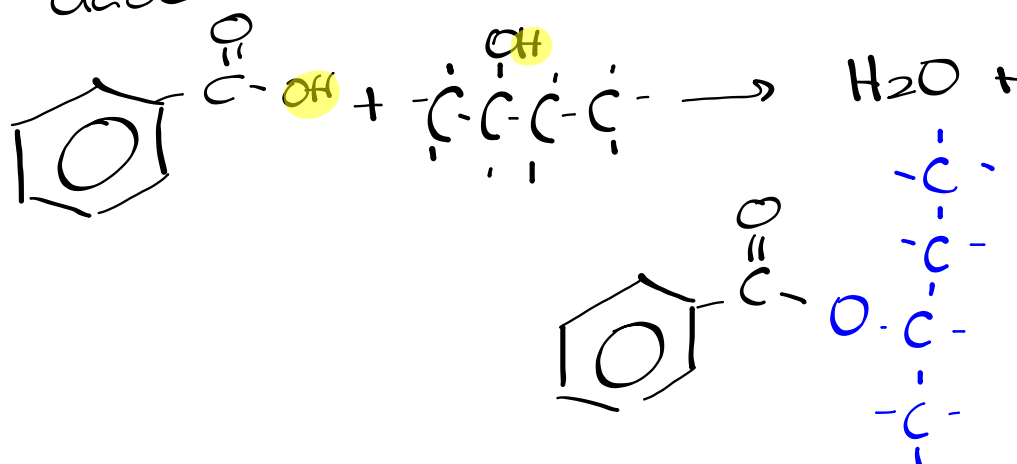
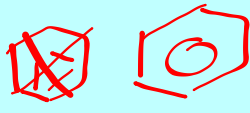


Esters Homework Sheet

6) benzoic + 2-butanol \rightarrow
acid



Unit 1 - Organic Chemistry

- Characteristics of organic compounds
- Identifying and drawing isomers
- General formulas of alkanes, alkenes, alkynes, and cyclic compounds C_nH_{2n+2} C_nH_{2n} C_nH_{2n-2}
- Sigma vs. Pi bonding
- Draw and name hydrocarbons that have alkyl substituents
- Aromatic Compounds 
- Name and draw the following hydrocarbon derivatives:

⇒ Organic Halides $R-X$

⇒ Alcohols $R-OH$

⇒ Ethers R_1-O-R_2

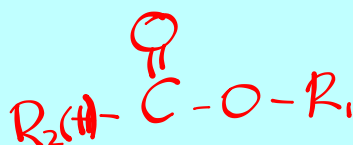
⇒ Aldehydes $R(H)-C(=O)-H$

⇒ Ketones $R_2-C(=O)-R_1$

⇒ Carboxylic Acids $R(H)-C(=O)-OH$

⇒ Esters $R_2(H)-C(=O)-O-R_1$

- Reactions



Reactions

- Cracking (*break into pieces*)
- Reforming (*two small \longrightarrow one big*)
- Combustion (*burned, common oxides*)
- Addition (*breaking a pi bond(s)*)
- Substitution (*break a C-H bond and
replace with halide*)
- Elimination (*adding a pi bond*)
- Esterification
(*carboxylic acid + alcohol \longrightarrow ester*)

Reactions Worksheet