Basic Functional Group Interconversions (FGI)

Bromination of an alkane

allylic bromination

bromide to alkene, E2 elimination with bulky base

bulky base and 3° halide gives least substituted alkene

simple base and 3° halide gives most substituted alkene

bromide to alcohol, simple S_N2

alkene to Markovnikov alcohol

Br_2 addition to an alkene

alkene to anti-Markovnikov alcohol

alkene to Markovnikov bromide

alkene to anti-Markovnikov bromide

alkene to epoxide

alkyne to trans-alkene

alkyne to cis-alkene

alcohol to bromide

alcohol to aldehyde

alcohol to carboxylic acid

formulation of an alkyne

reduction of aldehydes/ketones