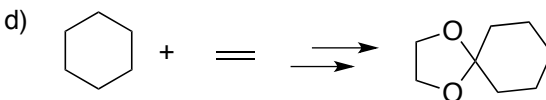
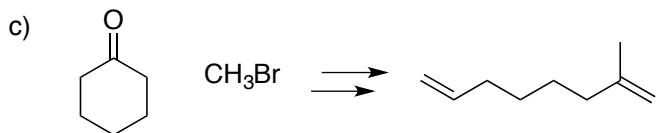
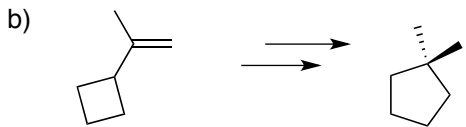
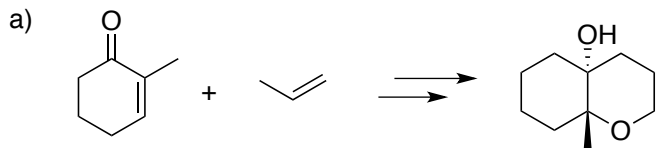
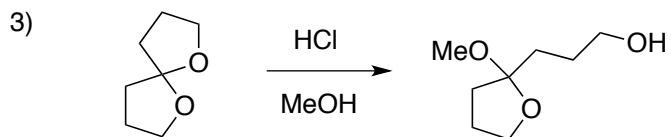
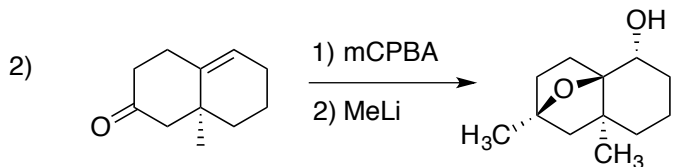
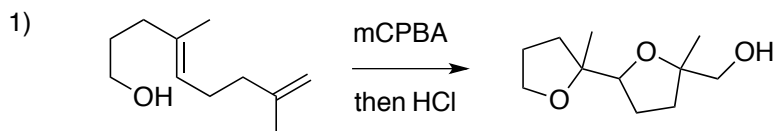


1) Show how you could carry out the following syntheses using the reagents shown. Show all intermediates



2) Show a mechanism that explains the following transformations



3) Upon photolysis of carbonyls, a fragmentation called a Norrish-type cleavage can take place. Using single-headed arrows, show a mechanism for the following transformations

