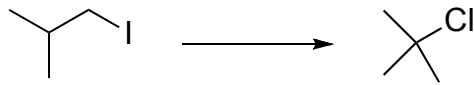
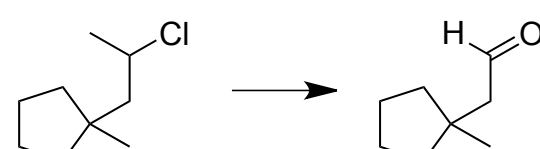
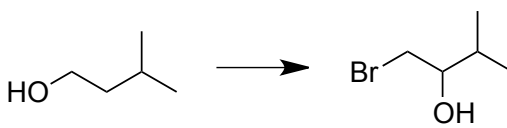
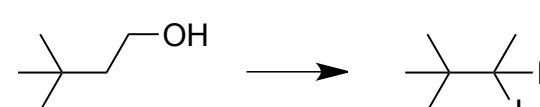
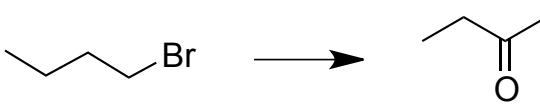
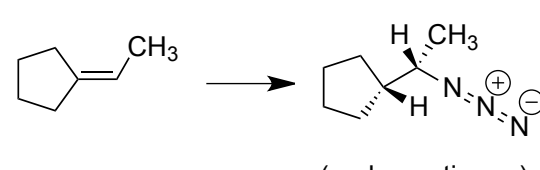
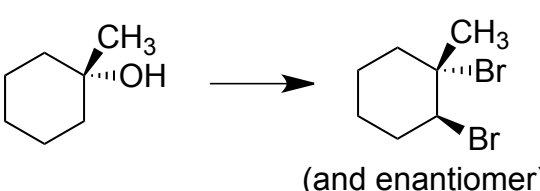
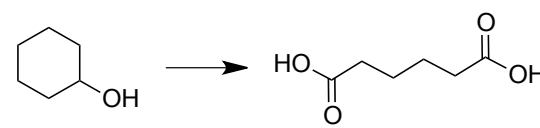
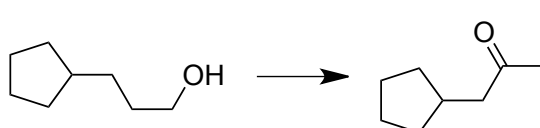


**You are encouraged to post questions and responses on the Piazza website.**

1. Propose multi-step syntheses of two to four steps for each of the following. All carbons must come from the given starting material(s). In the cases with two starting materials, you may carry out separate reactions on each before combining them. Use any reagents from the book or described in class. If a step makes more than one product, show all products but circle the one that continues in your synthetic plan. (We are assuming you can purify the substance.)

(a) 	(f) 
(b) 	(g) 
(c) 	(h)  (and enantiomer)
(d)  (and enantiomer)	(i) 
(e) 	(j) 