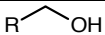





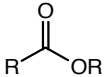


Chemistry 218, Problem Set 7

20.2-20.6, 20.8-20.11, 20.14, 20.16-20.18-20.24, 20.26-20.28, 20.37-2.38 (except f, i), 20.40 (a-j), 20.43 (a-b, d-e), 20.44 (c,d), 20.45, 20.46 (a, b, d), 20.48 (a-f, h, i), 20.49 (a-c, e, h), 20.51 (except E→G), 20.53-20.54, 20.55-20.59

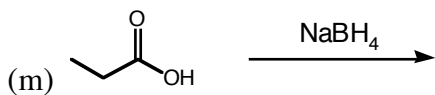
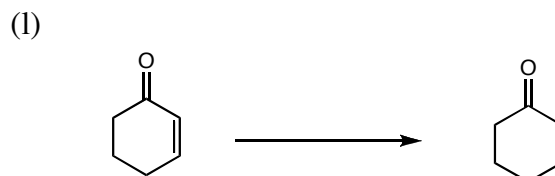
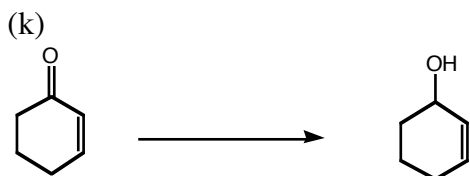
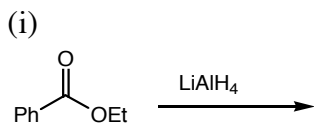
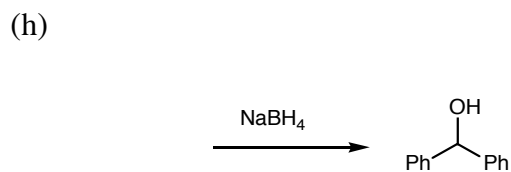
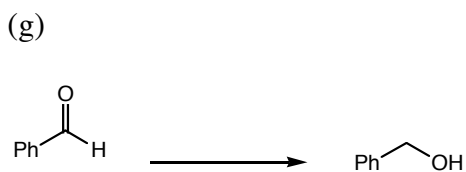
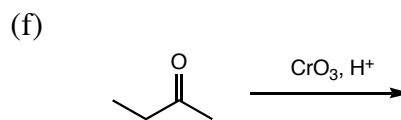
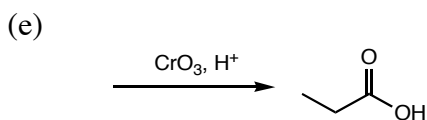
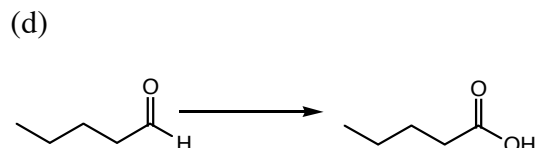
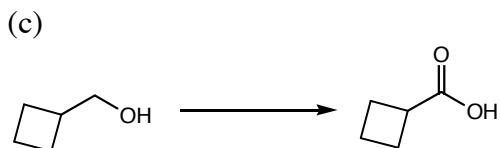
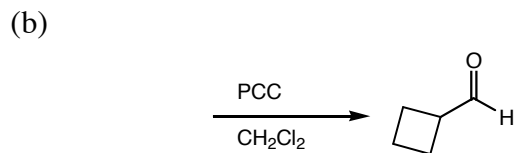
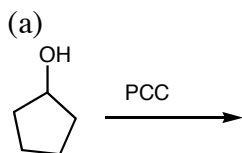
(Recommended problems from 1st ed): 20.2-20.6, 20.9-20.12, 20.15, 20.17-20.25, 20.36-20.37 (except f, i), 20.39 (a-j), 20.42 (a-b, c-d), 20.43 (c,d), 20.44, 20.45 (a,b,d), 20.47 (a-f, i-j), 20.48 (a-f, h, i), 20.48 (a-c, e, h), 20.50 (except E→G), 20.52-20.53, 20.54-20.56)

1. Fill in the products that are formed at each intersection of reagent and substrate:

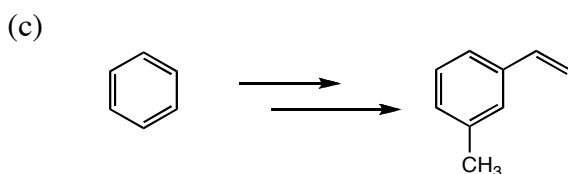
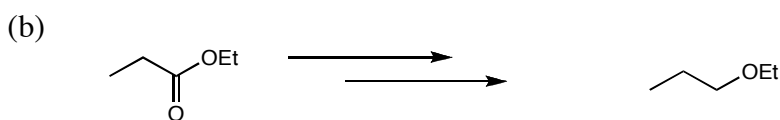
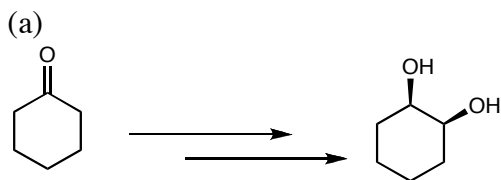
	PCC in CH ₂ Cl ₂	CrO ₃ , H ⁺ , H ₂ O
		
		
		
		

	NaBH ₄	LiAlH ₄	DIBAL-H (-78 °C)
			
			
			

2. Give the appropriate starting material, reagent, or product for the following reactions. In some cases there may be no reaction or reagent that will perform the reaction.



3. Propose a synthesis of the following compounds. You may have to use reactions from earlier in the semester or even last semester.



4. Propose a mechanism for the following reactions:

