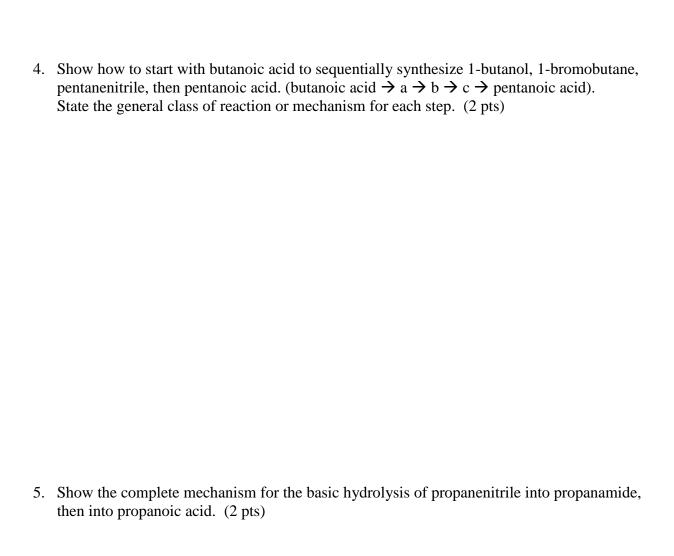
CHM 2211 – Ch 20 Homework

1.	Provide structures and systematic names for pyruvic acid, fumaric acid, benzonitrile, and acetonitrile. Refer to Table 20.1 and Section 20.1. Show correct geometry on sp ² and sp C's. (1 pt)
2.	Provide structures, with correct geometry on sp ² and sp C's, for 3-oxobutanoic acid, 1,4-benzenedicarboxylic acid, 1-cyclohexenecarbonitrile, and 2-oxobutanenitrile. (1 pt)
3.	Show a reaction mechanism that will create propanoic acid from an alkyl chloride using Mg, then CO_2 . (1 pt)



6.	Show the complete dehydration mechanism that converts propanamide into propanenitrile. (2 pts)
7.	Show a complete reaction mechanism that will create propylamine from an alkyl chloride using KCN, then a reducing agent. (1 pt)