Exam 1 Name:

CHM 2211

Spring 2011

1. Name or draw (3 pt each, 18 pt total)



d. 0-chlorophenol

e. 5-sec-butyl-2-(1-ethenyl)acetophenone

f. 4-isopropyl-3-methylbenzaldehyde

1. Are the following aromatic, yes or no (2 pt each, 8 pt total)



1. Complete the full mechanism for the following reactions (11 pt each, total 22 pts)





1. Prepare the following using any conditions or reagents you need (13 pt each, total 52 pts)
   1. Prepare m-butylaniline from benzene
   2. Prepare 2-nitrophenol from benzene
   3. Prepare 4-(1-bromopropyl)-3-iodobenzenesulfonic acid from propylbenzene
   4. Prepare 4-bromobenzoic acid from benzene