Chemistry 2521 Quiz 1

Name: Key

1. (4 pts) Provide the IUPAC name for the compound below.

2. (18 pts) For the following reactions, give the major product or missing reagent(s).

stereochemistry = 2 points!

3. (10 pts) Below each structure indicate if it contains a primary (1°), secondary (2°), tertiary alcohol (3°), or no alcohol (none). Also, provide the pKa of the molecule (i.e. most acidic H on the molecule).

4. (3 pts) Give the initiation step for the following reaction

5. (2 pts) Draw in the mechanistic (curly) arrows for the following reaction.

6. (8 points). For the two molecules below, show two retrosynthetic steps for each. Reagents should be provided. This is your first examination question on retrosynthesis, so this is meant to be kinda easy.

