Quiz 5

1. 1. Br_{3}/CCl_{4} 2. KOH/200 °C3. $H_{2}O/H_{2}SO_{4}/HgSO_{4}$ 4. $NaBH_{4}$ 5. $H_{3}O^{+}$ 6. TsCl/pyridine7. Nal/acetone 2. 1. $CH_{3}O^{*}Na^{+}/CH_{3}OH$ 2. O_{3} 3. $(CH_{3})_{2}S$ 4. $CH_{3}Ui, 2 eq.$ 5. $H_{3}O^{+}$ 6. $SOCl_{2}, xs$ 7. $K^{+}:OtBu/tBuOH$

3. From any alkenes, alkynes or alcohols of three carbons or less, any inorganic reagents, and any oxidizing or reducing agents, synthesize the molecule below.