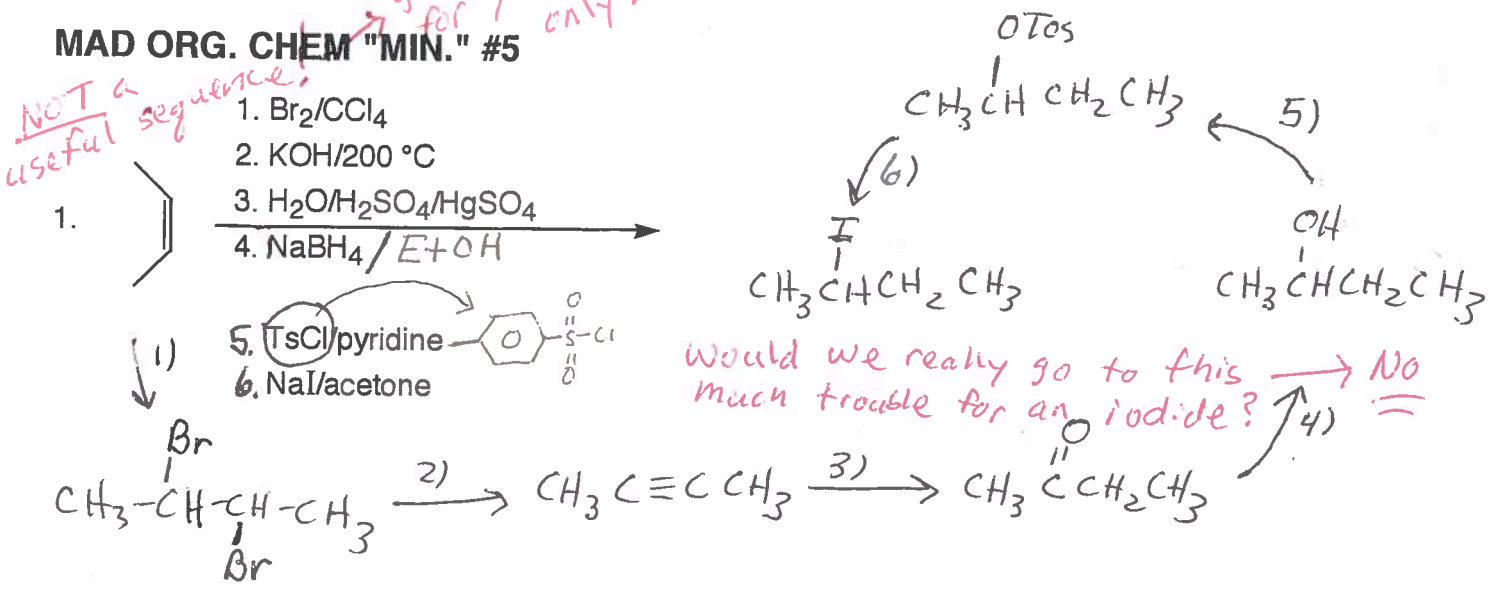
MAD ORG. CHEM "MIN." #5

given for practice only!

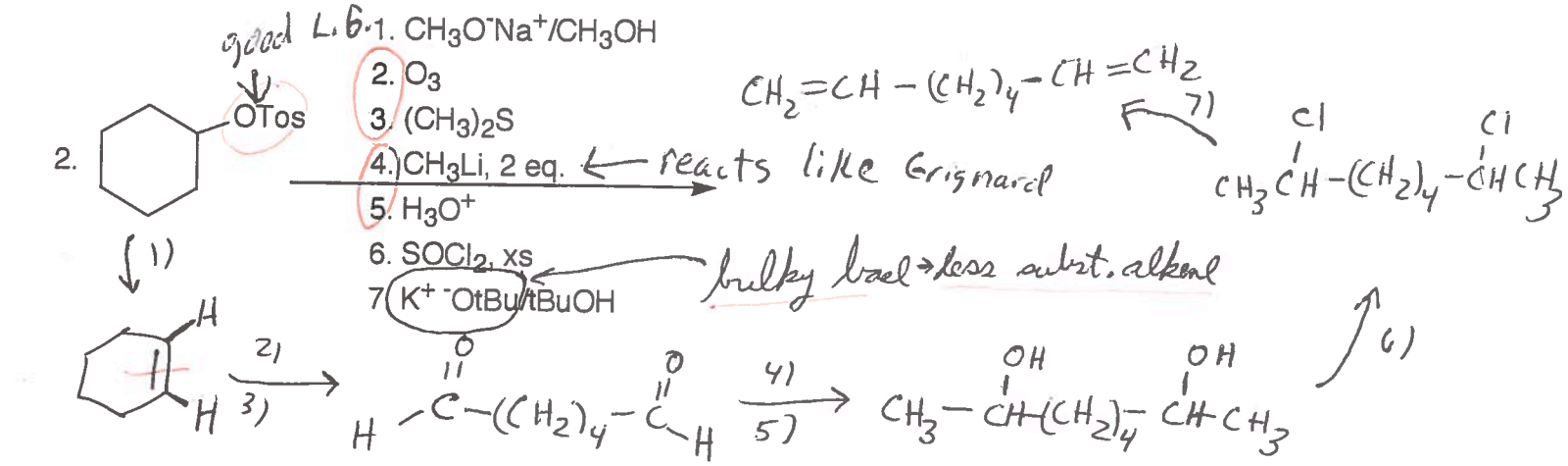
NOT a useful sequence!

1. Br_2/CCl_4
2. KOH/200 °C
3. $H_2O/H_2SO_4/HgSO_4$
4. $NaBH_4$ / EtOH
5. TsCl/pyridine
6. NaI/acetone



good L.G.

1. $CH_3O^-Na^+/CH_3OH$
2. O_3
3. $(CH_3)_2S$
4. CH_3Li, 2 eq. ← reacts like Grignard
5. H_3O^+
6. $SOCl_2$, xs
7. $K^+ {}^-OtBu$/tBuOH ← bulky base → less substit. alkene



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.