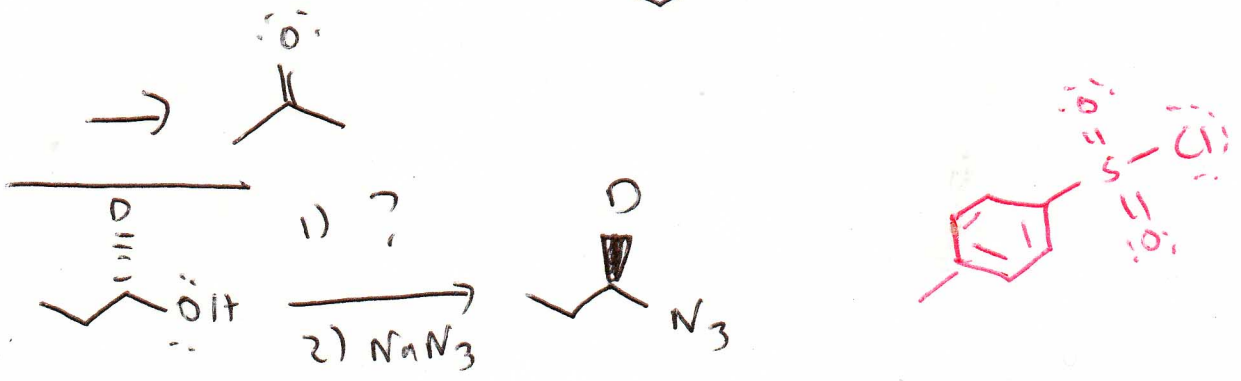
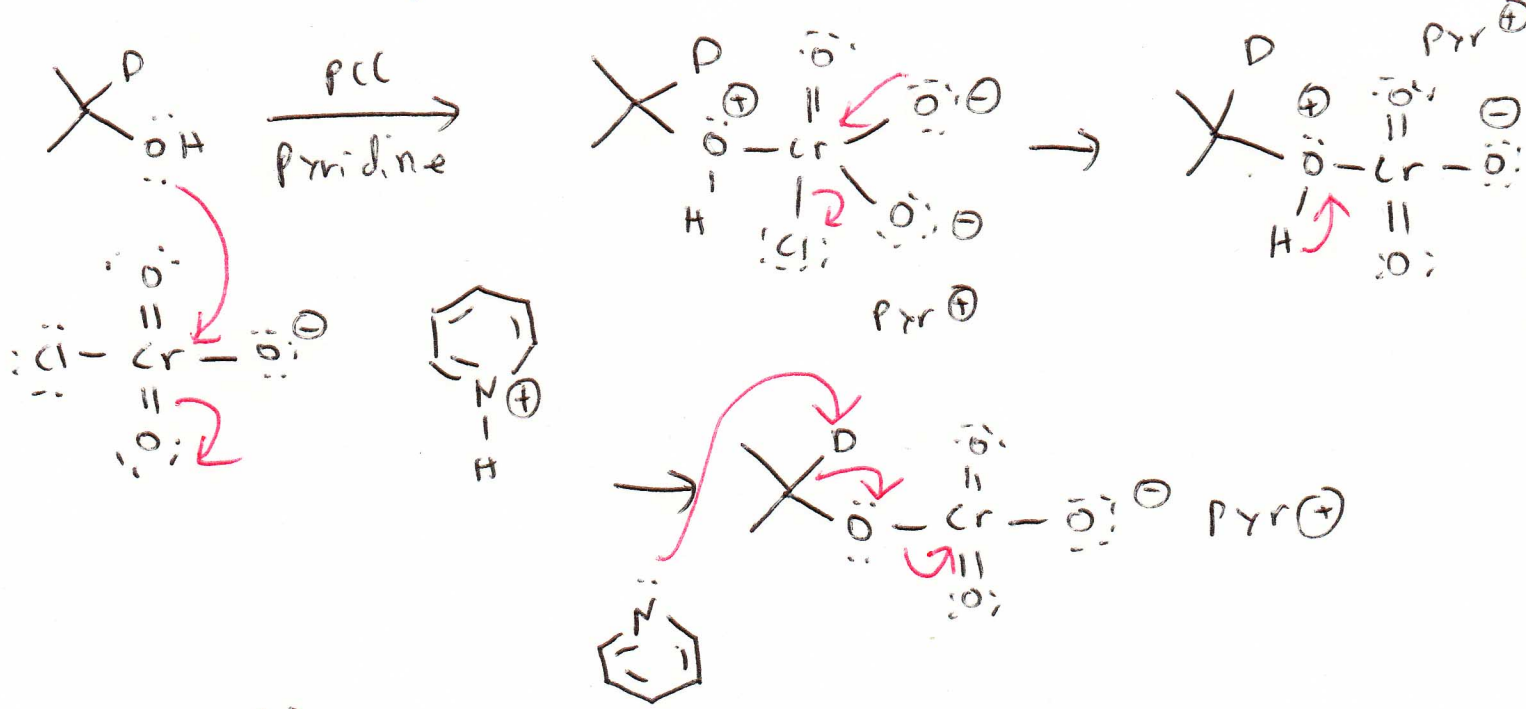
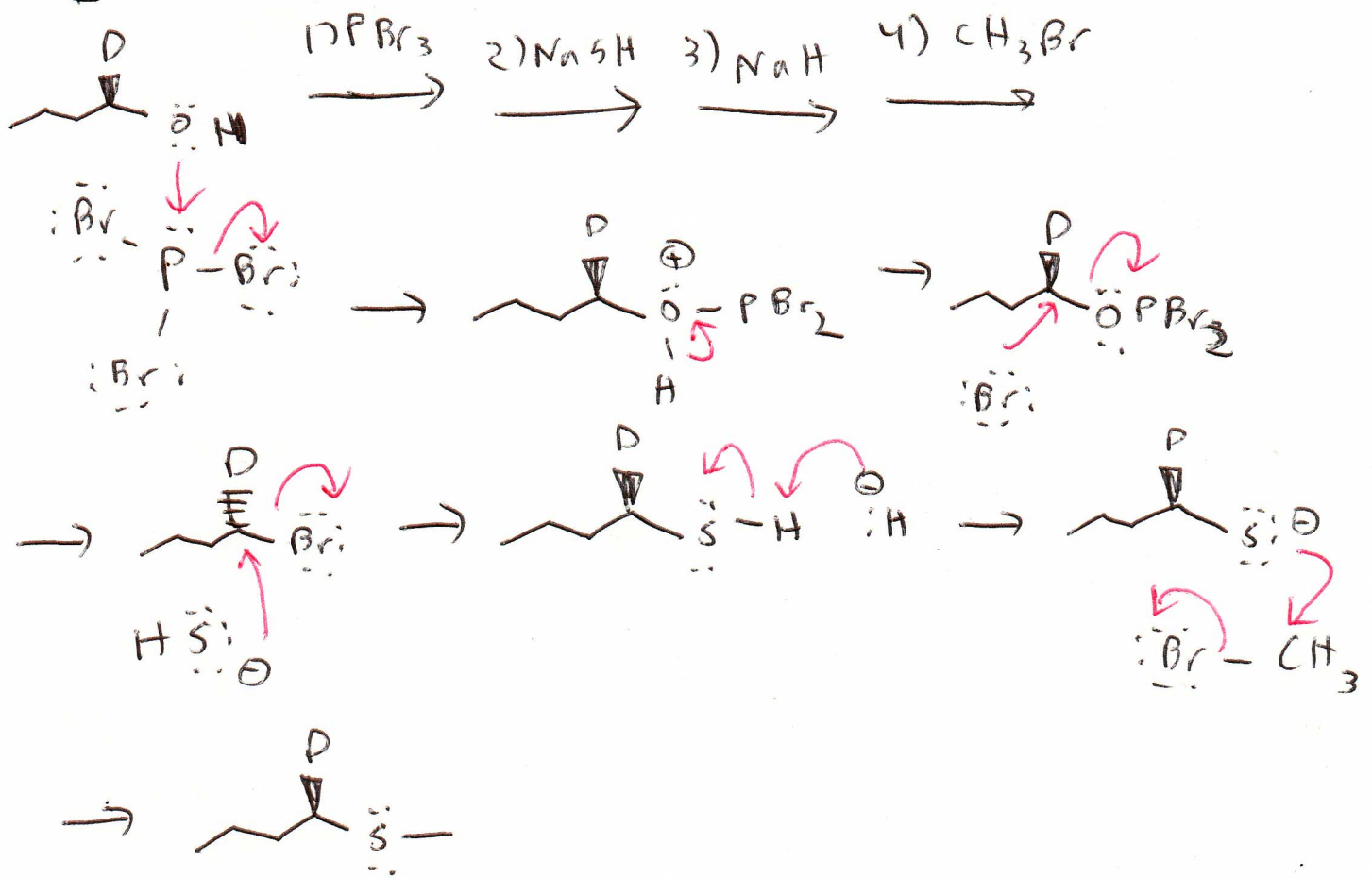
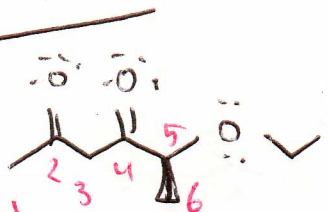
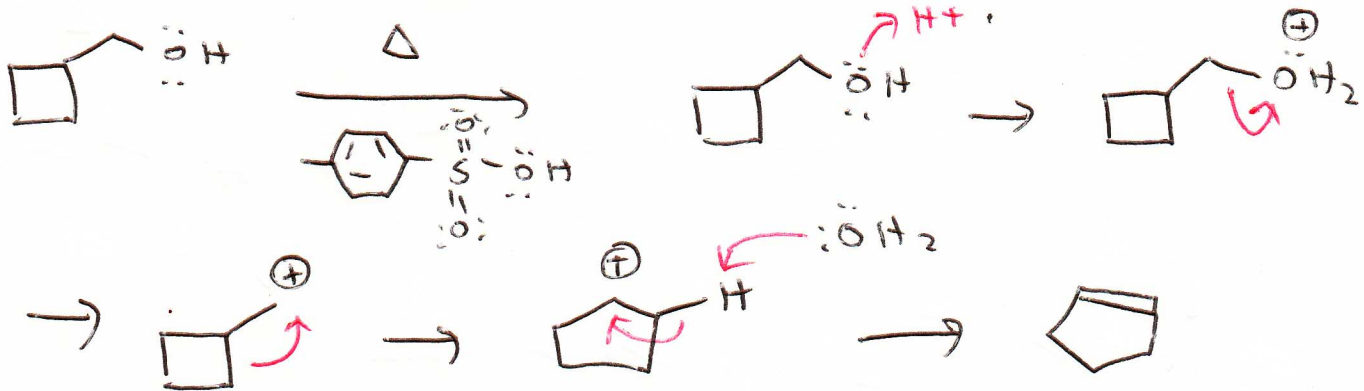


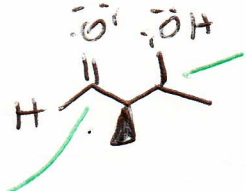
1/26/12

11



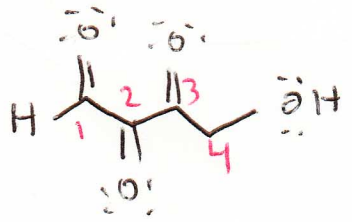


(S) - 5-ethoxyhexane-2,4-dione



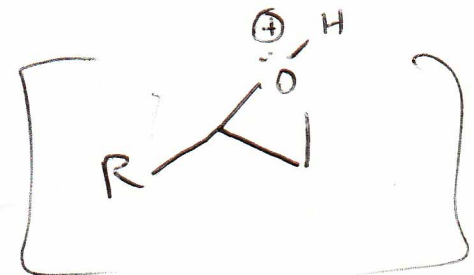
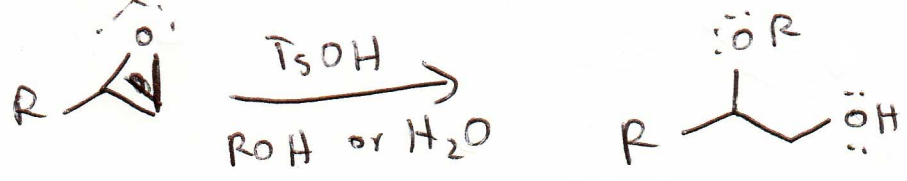
(R) - 3-hydroxy-2-methylbutanal

[O, O, H]

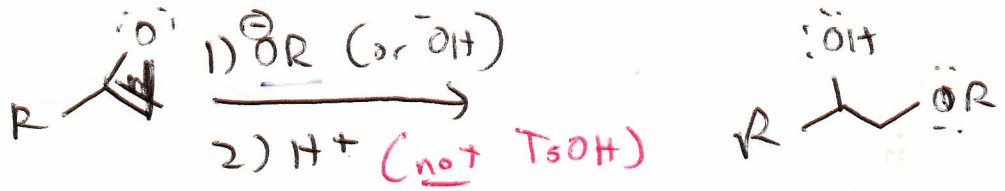


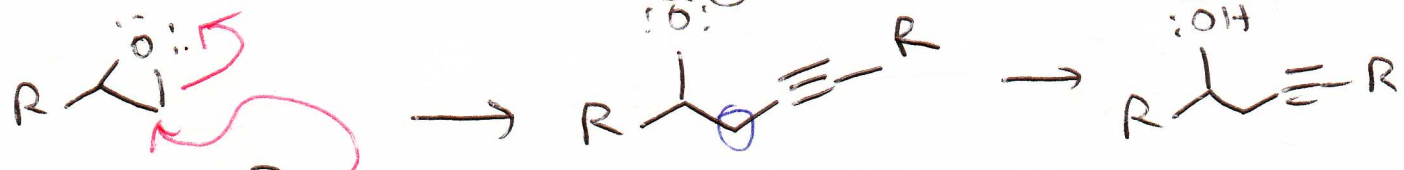
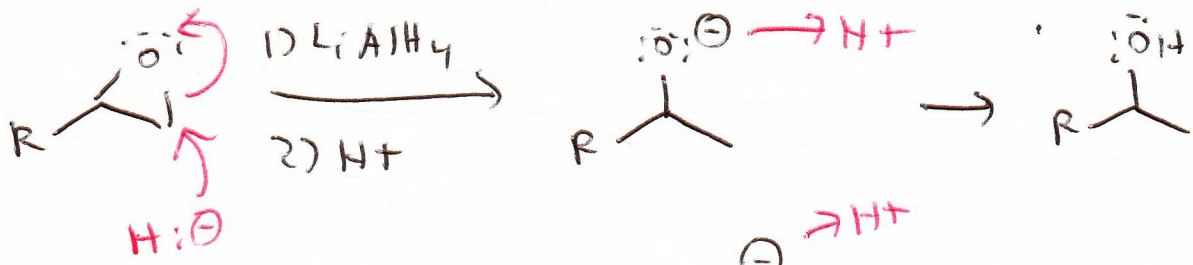
4-hydroxy-2,3-dioxobutanal

cationic epoxide ring opening



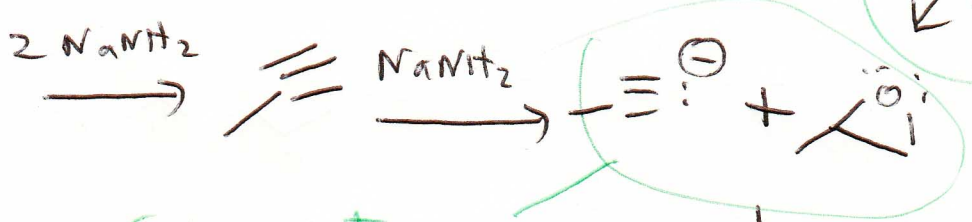
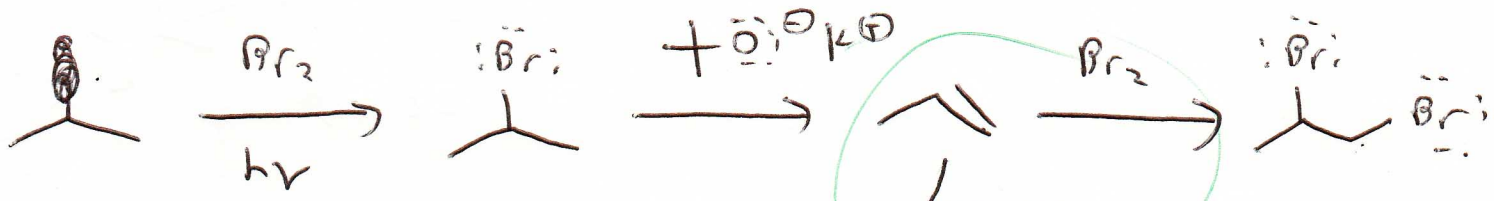
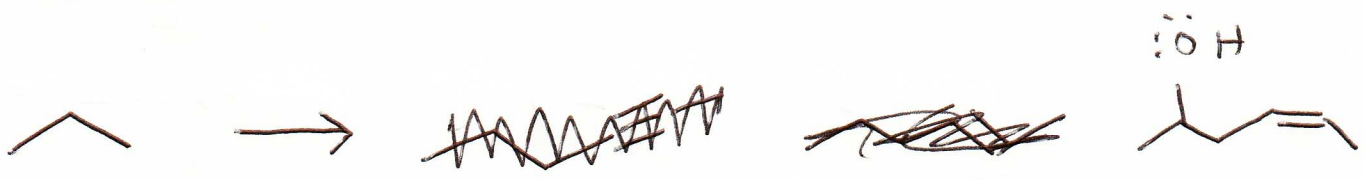
anionic epoxide ring opening





acetylide

Careful drawing triple bonds!



Convergent synthesis

divergent synthesis

