

CHE 310 – 002 & 003  
Lecture Homework #30

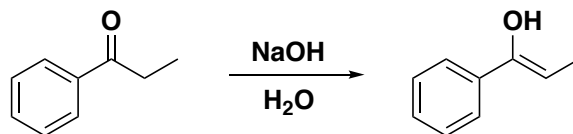
**Section 002 Due:** Wednesday, April 10, 2019, 9:00 am.

**Section 003 Due:** Wednesday, April 10, 2019, 10:00 am.

1. Provide the major product(s). Clearly indicate the stereochemistry in your structures where appropriate. Where more than one stereoisomer is formed you only need to draw one of the stereoisomeric products. Other stereoisomers should be indicated by writing, “+ *enantiomer*” or “+ *diastereomer*”, as appropriate. Check the boxes on the right to indicate whether the reaction product solution would be optically active ( $[\alpha]_D \neq 0$ ) or not optically active ( $[\alpha]_D = 0$ ). Under the check boxes indicate why that box was chosen (possible answers are single enantiomer, diastereomers, racemic, meso and achiral)



2. Provide the complete electron pushing mechanism for the reaction below.



3. Go to the chemistry match game and select Styrene. Study the pairs for a couple of minutes before you begin to refresh yourself with the reactions you already know and familiarize yourself with those you will be learning very soon. Play the match game for Styrene for at least five minutes and five attempts.

<https://www.nku.edu/~russellk/demo/login.php>