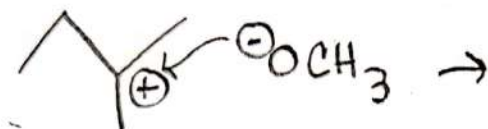


Review of Ch 8

8.1 Curved arrows - 3 basic movements, draw all products!

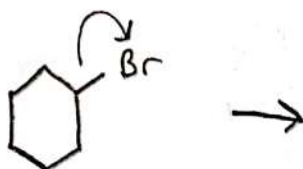
① LP $\rightarrow$ bond

ex

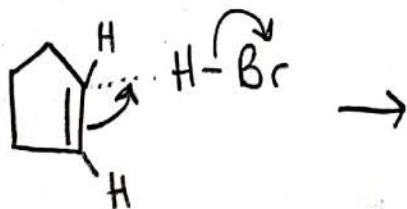


② Bond $\rightarrow$ LP

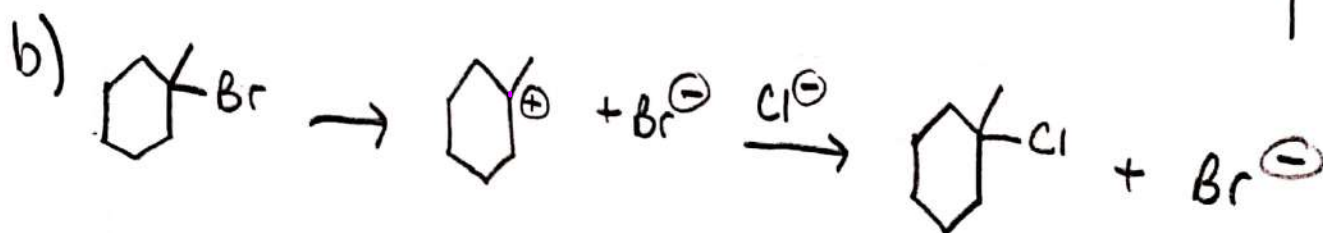
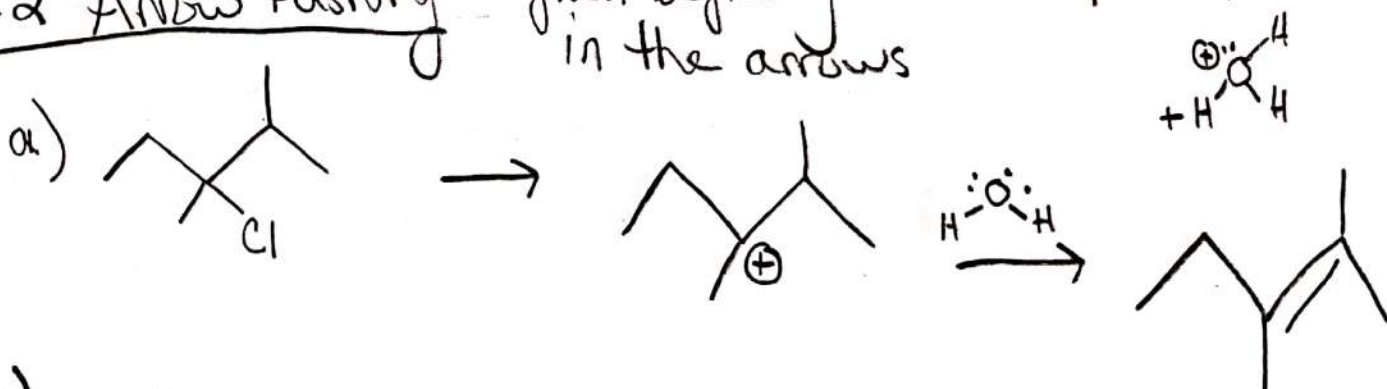
ex



③ Bond $\rightarrow$ Bond

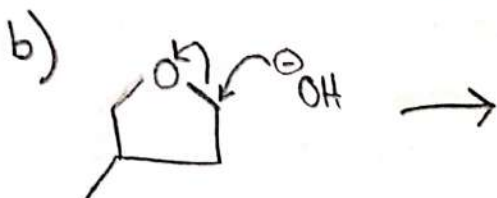
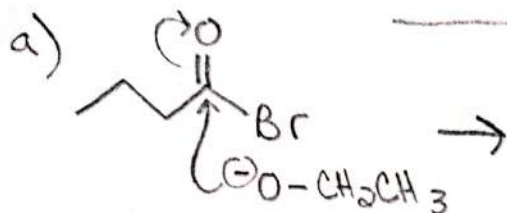


8.2 Arrow Pushing - given beginning + end compounds, draw in the arrows



8.3 Drawing Intermediates

Draw products! $\hookrightarrow$ Define intermediate: _____



8.4 Nucleophiles & Electrophiles

$\hookrightarrow$ _____

**define each!*

I identify each role, you will need to draw the arrow(s).

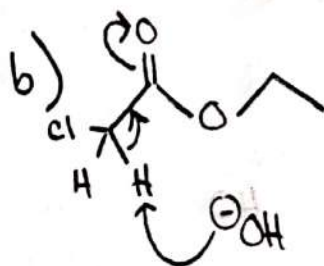
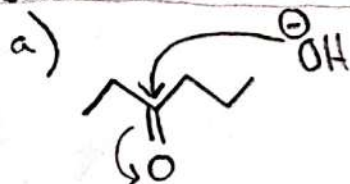


8.5 Bases VS. Nucleophiles

$\hookrightarrow$ _____

**define each!*

Determine the role of each OH^-



Nucleophilicity is a measure of _____

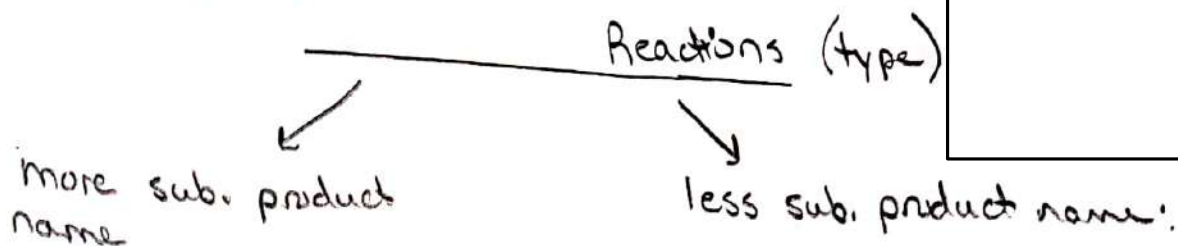
while Basicity is a measure of _____

Draw the products of each!

8.6 The regiochemistry is Contained w/in the Mechanism

1) What is regiochemistry: _____

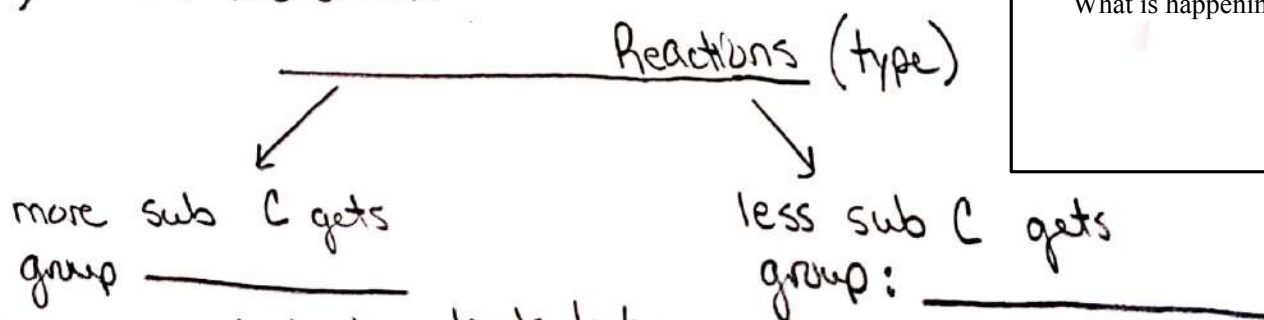
2) Fill in the Chart:



What is happening here?

3) Which product above tends to be more stable? Why?

4) Fill in the Chart:



What is happening here?

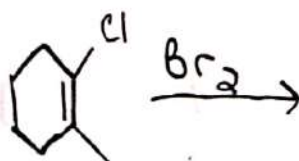
5) Which product above tends to be more stable? Why?

8.7 The Stereochemistry is Contained w/in the Mechanism

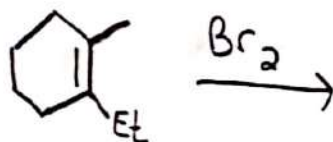
1) define stereochemistry:

2) define racemic mixture:

3) Draw Syn addition:



4) Draw anti addition:



5) ADD $\text{H} + \text{OH}$ across the double bond w/ Markovnikov regiochemistry, and anti-addition.

