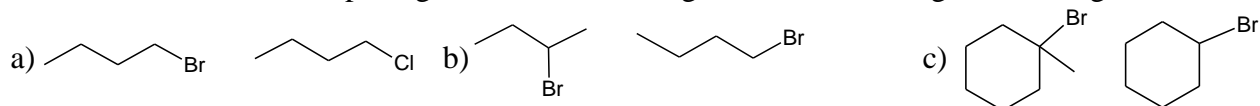


## Power Point Study– 08-3 Elimination Reactions E1 and E2/Name:

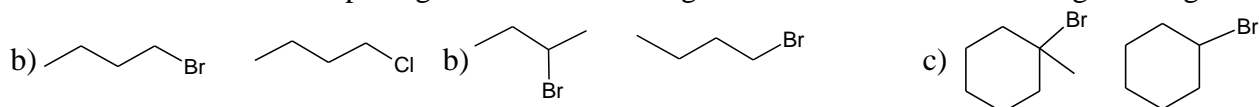
For E2 – need a 1° or 2° substrate and strong base. Small bases give Zaitsev's products, bulky bases give Hoffman product.

For E1 – need a 3° substrate and good base. Zaitsev's product is major. Rearrangement is possible.

1) Circle the substrate in the pairs given that will undergo E1 faster with a good base e.g.  $\text{CH}_3\text{O}^-$ .



2) Circle the substrate in the pairs given that will undergo E2 faster with a small strong base e.g.  $\text{OH}^-$ .



3) Draw the kinetics graph for an E1 reaction mechanism. Label it with substrate, product etc.

4) Write the complete mechanism and major products for the following elimination reactions. Think whether the reaction is E1 or E2 first. Write if the product is Hoffman's or Zaitsev's.

