Week 3 Worksheet

1. SN1 vs SN2 review! Determine if the reaction will undergo SN1 or SN2, then draw the substitution product(s).

   ![Reaction 1](image1)

   ![Reaction 2](image2)

   ![Reaction 3](image3)

2) Provide a plausible starting material that would undergo the following reaction.

   ![Reaction 4](image4)
3. Each of the following may undergo an elimination reaction under the proper conditions. Draw the alkene product(s) that may form. If more than one alkene product is possible, circle the most stable (Zaitsev) product.

4. Which mechanism, E1 or E2, will occur in each reaction? Draw the major product of each reaction.
5) Provide the mechanism and draw the organic products formed in each reaction.

a) 

b) 

6. Draw a stepwise mechanism for the following reaction.