Name: _____ Date: _____ Pd: ___

O-Chem 8.6 Practice "Stereochemistry within Mechanisms"

Directions: Add/edit text boxes to complete the following questions. You can also add drawings and lines. **CLICK HERE** to see a video of how to make drawings using the scribble-line tool. You may also draw your answers on paper then attach your drawings to the google assignment as an image or paste them into each question on the slides.

1. What is a "carbocation"?
   ANSWER

2. What is "regiochemistry"?
   ANSWER

3. Explain the "basics" of what happens during an **elimination reaction**.
   ANSWER

   a. What are the two possible types of products?
      ANSWER

   b. How can you distinguish between them?
      ANSWER

   c. Which product tends to be more stable? Why?
      ANSWER

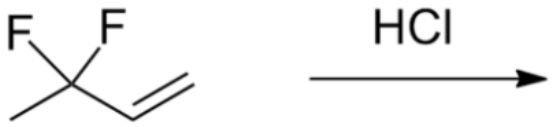
4. Explain the "basics" of what happens during an **addition reaction**.
   ANSWER

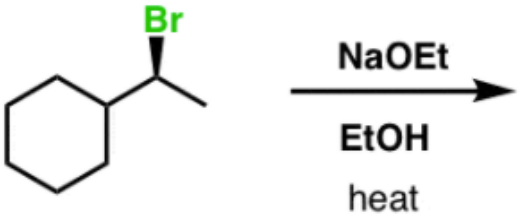
   a. What are the two possible types of products?
      ANSWER

   b. How can you distinguish between them?
      ANSWER

   c. Which product tends to be more stable? Why?
      ANSWER

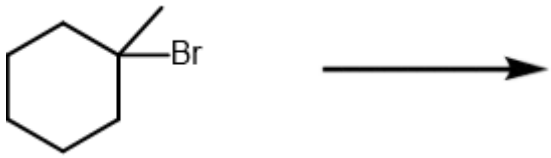
3. Using your “foldable” that we made for elimination and addition reactions. Predict the two possible products for each reaction. Label each answer as either Zaitsev (**Z**), Hoffman (**H**), Markovnikov (**M**), or Anti-Markovnikov (**A-M**).

a. 

b. 

Hint: Don’t worry about the “stuff” on the arrow - just predict the possible products!

c. 

d. 

e.