

Time flies like an arrow, but fruit flies like a banana.

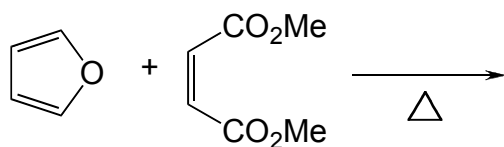
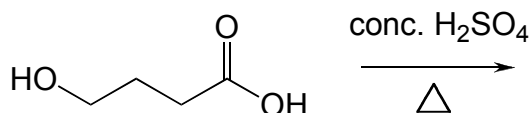
NAME: _____

TA: Robert

Section: 1E

Quiz #6

1. Please provide the major product for each. (4pts)



2. Why do we reflux the reaction pot? What rate principle is in effect here? (4pts)
3. Since this reaction is an equilibrium reaction with a relative small equilibrium constant, how can we take advantage of Le Châtelier's Pinciple to increase the yield? (4pts)
4. What are the following substances used for in the experiment today: (4pts)
- a. Sodium Bicarbonate:
 - b. Sodium Sulfate:
5. A student observes a refractive index of $n_D=1.4040$ for his compound at 24.5°C . Calculate the refractive index at 20°C . (2pts)
- $$n_D^X = n_D^T + (T-X) \cdot 0.00045$$
6. Why are we performing a vacuum distillation instead of a normal distillation? (2pts)