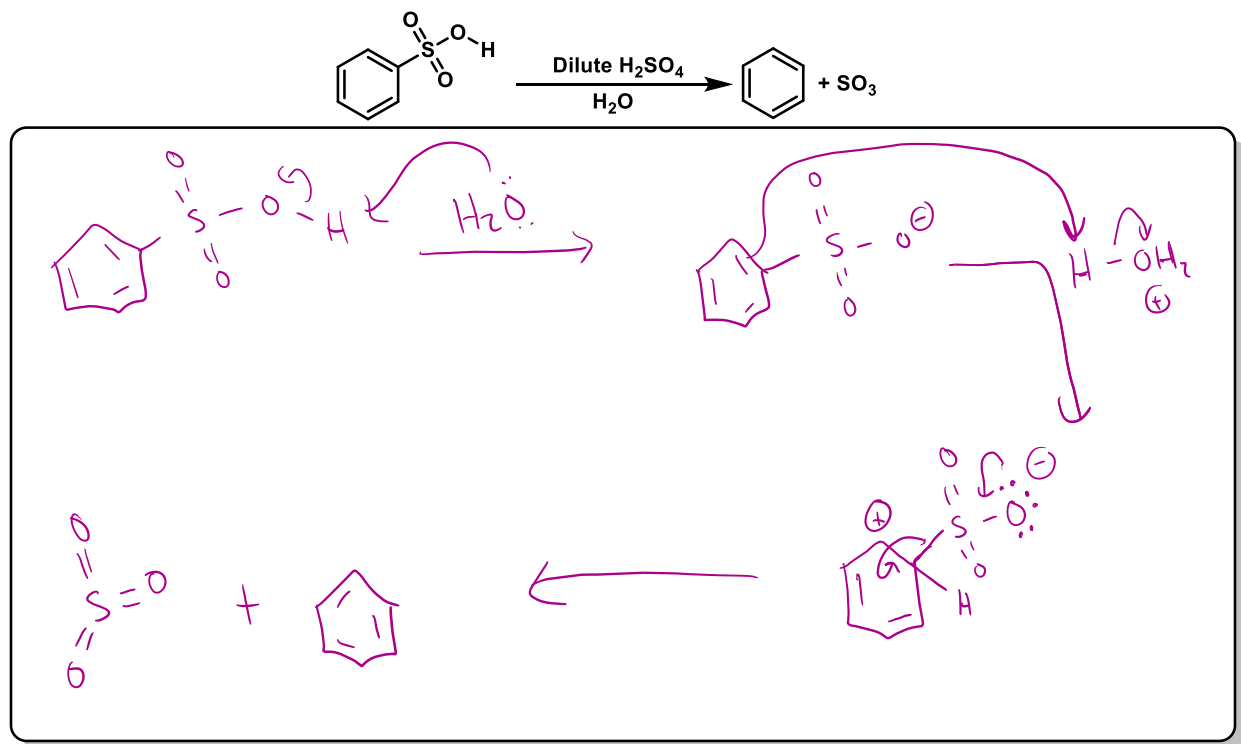


1. In class we talked about the mechanism for sulfonation. Provide the mechanism for the reverse process as shown by the reaction scheme below. (4 points)



2. Complete the synthesis below by providing either the required reagents, intermediate or final product. Then in the box underneath, answer which of the 3 reactions would be the fastest in relation to each other. (6 points)

