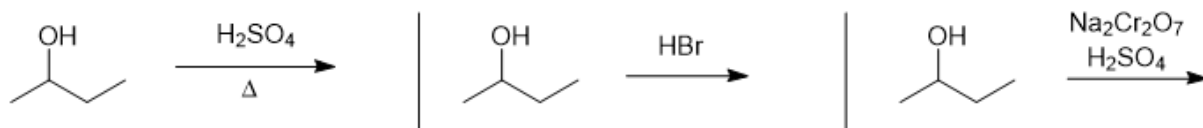
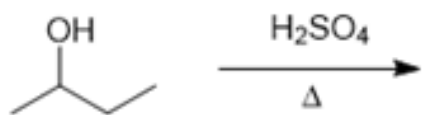




1 Predict the major products for the following reactions.

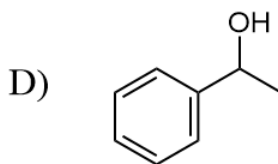
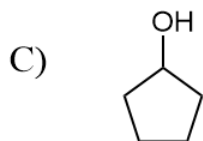
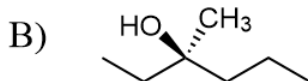
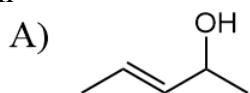


mechanism?



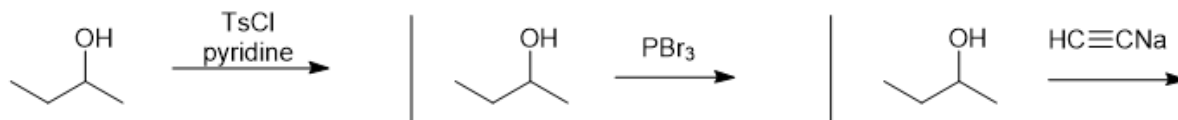
2 Which would undergo the **SLOWEST** dehydration mechanism?

& Explain

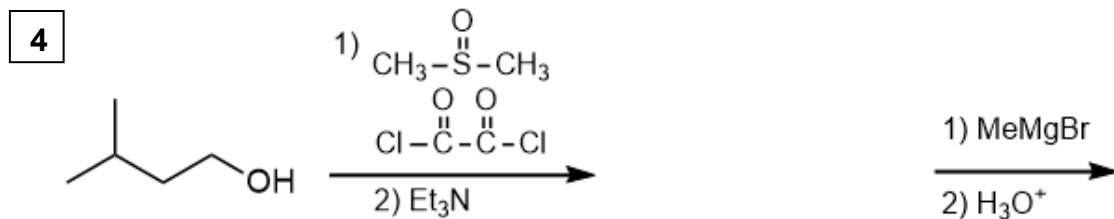


E) None of the above (can't predict)

3 Predict the major products for the following reactions.

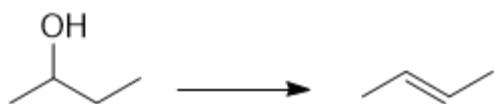
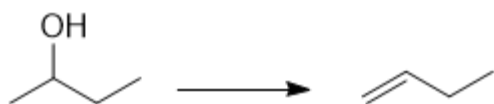


Predict the major product.



Which reagents would be best to achieve the following synthesis?

5



- I. 1)  $\text{TsCl}$ , pyridine; 2)  $\text{NaOEt}$
- II. 1)  $\text{TsCl}$ , pyridine; 2)  $t\text{-BuOK}$
- III.  $\text{H}_2\text{SO}_4$ , heat

6

