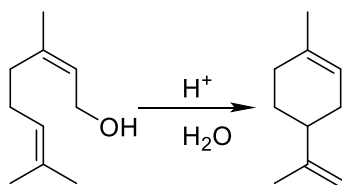

Name/

A. Predict the product of reaction when Ac_2O reacts with geraniol.

B. "Nerol undergoes nine times faster for the cyclisation to α -Terpineol on treatment with aqueous H_2SO_4 than that of geraniol." Justify the statement.

C. Write the mechanism of the following reactions.



D. What conclusion can you derive about the structure of α -Terpineol from the following facts:

- α -Terpineol does not give aldehyde or ketone on mild oxidation. It is not dissolved in dil. NaOH. It readily undergoes dehydration with H_2SO_4 . It yields phenylurethane on reaction with phenylisothiocyanate.
- The molecular formula of α -Terpineol is $\text{C}_{10}\text{H}_{18}\text{O}$.

E. How will you synthesis terpenylic acid from myrcene.