Afternoon

Please attempt the following problems

1. Write mechanisms to explain the following reactions

\[ \text{C} - \text{CH}_3 \quad \xrightarrow{\text{N}_3\text{H}} \quad \xrightarrow{\text{D}_2\text{O}} \]

Called the \( \alpha \) proton

2. \( \beta \)-hydroxy aldehyde

Aldol Rxn

How
3) Write Mechanism and Products

4) Write Products & Mechanisms
5) **Outline a synthesis from the given molecule**

(a) 

(b) 

\[ \text{EtO}^+ + \text{P} \equiv \text{O}_3 \rightarrow \text{EtO}^+ \]

**From** 

\[ \text{CH}_3 \text{CH}_2 \text{CH} \equiv \text{CH} \text{CH}_2 \text{CH}_2 \text{CH}_3 \]