PS 6: study last years exam, practice exam and problem sets. additional questions

Provide arrow pushing mechanisms

Provide a synthesis from 3 carbons or less

$$\begin{array}{c} \text{Claisen} \\ \text{OH} \end{array} \longrightarrow \begin{array}{c} \text{Claisen} \\ \text{OH} \end{array} \longrightarrow \begin{array}{c} \text{Claisen} \\ \text{OH} \end{array} \longrightarrow \begin{array}{c} \text{Li} \\ \text{OH} \end{array} \longrightarrow \begin{array}{c} \text{LDA} \\ \text{CH} \end{array} \longrightarrow \begin{array}{c} \text{LDA} \\ \text{LDA} \end{array} \longrightarrow \begin{array}{c} \text{$$