1. (10 points) Draw the structures of B and of C.

A

\[
\text{C}_\text{C} \text{H}_\text{H}_\text{O}
\]

2. (10 points) Draw an arrow-pushing mechanism for the transformation of C to D.

3. (10 points) Write a synthesis route to E. You may use any starting material that contributes three or fewer carbons to the final product.